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CHANCE POWER INTERNATIONAL CORP.

CHANCE POWER INTERNATIONAL CORPORATION

ABOUT US



We are a specialized provider of advanced material solutions and industrial manufacturing technologies, serving customers across a broad range of industries.



We are committed to supplying high-performance materials, innovative production solutions, and value-added technical support that enable our customers to improve product quality, manufacturing efficiency, and environmental sustainability.



As a trusted business partner, we bridge world-class manufacturers with regional markets by offering premium products, engineering expertise, and dependable supply chain solutions.



Our commitment to excellence has established us as a reliable source for advanced industrial materials and processing technologies.



INDUSTRIES WE SERVE

Our products are widely used in industries including:

- Packaging
- Printing and Publishing
- Construction Materials
- Automotive Components
- Consumer Products
- Stationery
- Industrial Manufacturing
- Plastic Compounding
- Rubber Processing

OUR BUSINESS



We provide comprehensive solutions encompassing raw materials, specialty papers, polymer products, mineral fillers, and industrial machinery.



Our portfolio is carefully selected to meet the growing demand for high-performance, environmentally responsible, and cost-effective manufacturing solutions.



We support our customers with technical expertise, application knowledge, and reliable supply chain management to ensure mutual growth and success.

OUR PRODUCT PORTFOLIO



RAW MATERIALS & SPECIALTY PAPERS

- Specialty Papers
- Composite Papers
- Stone Paper



POLYMER PRODUCTS

- Plastics
- Rubber
- TPE / TPU
- Silicone Products



MINERAL FILLERS

- Calcium Carbonate
- Talc
- Other Functional Fillers



INDUSTRIAL MACHINERY

- Processing Machinery
- Converting Equipment
- Automation Solutions



TECHNICAL SUPPORT & ENGINEERING

- Application Development
- Product Testing
- Technical Consultation

OUR COMMITMENT TO YOU



High Quality Standards

Delivering products that meet global quality standards.



Innovation & Technology Driven

Continuously improving through innovation and technology.



Reliable Partnership & Efficiency

Building long-term partnerships with efficiency and trust.



Sustainable Solutions for a Better Future

Committed to sustainability and creating value for a better future.



MATERIAL SOLUTIONS

Our product portfolio includes:



• Synthetic Paper



• Stone Paper



• Advanced Composite Paper



• Rubber Sheets



• Plastic Sheets



• Plastic Films



• Plastic Foams



• Calcium Carbonate (CaCO_3)



• Functional Mineral Fillers



• Customized Industrial Material Solutions



INDUSTRIES WE SERVE

Our products are widely used in industries including:



• Packaging



• Printing and Publishing



• Construction Materials



• Automotive Components



• Consumer Products



• Stationery



• Industrial Manufacturing



• Plastic Compounding



• Rubber Processing



INDUSTRIAL MACHINERY SOLUTIONS

Beyond materials, we offer complete manufacturing solutions designed to optimize production performance and operational efficiency.

OUR MACHINERY PORTFOLIO INCLUDES:

-  Rubber and Plastic Kneading Systems
-  Polymer Mixing and Compounding Equipment
-  Calcium Carbonate Grinding and Processing Systems
-  Material Handling and Production Equipment
-  Integrated Manufacturing Solutions



Our engineering team works closely with customers to recommend equipment that enhances productivity, product consistency, and long-term operational reliability.



STRATEGIC PARTNERSHIPS

Chance Power International Corporation is proud to serve as the exclusive distributor for internationally respected Taiwanese manufacturers renowned for their technological innovation and manufacturing excellence.

OUR PRINCIPAL PARTNERS INCLUDE:

- Taiwan Nan Ya Plastics Corporation
- Taiwan Lung Meng Advanced Composite Materials
- Taiwan Kneader Machinery Co., Ltd.
- Taiwan Jiu Jiu Machinery Co., Ltd.



Direct access to globally recognized products



Advanced manufacturing technologies



Ongoing technical support



Stronger performance and competitive advantage



These strategic partnerships allow us to provide customers with direct access to globally recognized products, advanced manufacturing technologies, and ongoing technical support.



OUR VALUE PROPOSITION

We believe that successful partnerships are built on quality, reliability, and innovation.

Our customers benefit from:



Premium-quality industrial materials

High-performance materials that meet international quality standards.



Exclusive access to leading Taiwanese technologies

Partnerships with top manufacturers and innovative technologies.



Comprehensive technical consultation

Expert advice and solutions tailored to your specific needs.



Tailored material and manufacturing solutions

Customized solutions designed to optimize your production.



Reliable international sourcing and logistics

Efficient supply chain and global network you can depend on.



Responsive customer support

Dedicated support team committed to your success.



VISION



To become a **trusted regional partner** in advanced industrial materials and manufacturing technologies, connecting world-class manufacturers with businesses seeking **innovation, quality, and sustainable growth.**



MISSION



To deliver **world-class material solutions** that create lasting value for our customers.



To represent **globally recognized manufacturers** with professionalism and integrity.



To provide **technical expertise** that enhances customer productivity and competitiveness.



To foster **long-term partnerships** through trust, innovation, and service excellence.



To promote **sustainable materials and technologies** that contribute to responsible industrial growth.



CORPORATE VALUES



Integrity

We conduct our business with honesty, transparency, and professionalism.



Innovation

We embrace new technologies and continuously explore innovative solutions that create value for our customers.



Quality

We are committed to providing reliable products and solutions that meet demanding industrial standards.



Partnership

We believe in building strong, long-term relationships with our customers, suppliers, and business partners.



Customer Commitment

We focus on understanding customer requirements and providing responsive, practical, and value-added solutions.



Sustainability

We support materials and technologies that contribute to environmental responsibility and sustainable industrial development.

SUSTAINABILITY



- We recognize the increasing importance of environmental responsibility in modern manufacturing.
- Our portfolio includes environmentally conscious material solutions such as stone paper and advanced composite materials that help reduce reliance on traditional wood-pulp paper while supporting more sustainable manufacturing practices.
- We continue to explore materials and technologies that contribute to improved resource efficiency, reduced environmental impact, and sustainable industrial development.





WHY CHOOSE US



Extensive expertise in advanced industrial materials



Strong partnerships with leading Taiwanese manufacturers



Comprehensive material and machinery solutions



Technical knowledge and engineering support



Reliable international sourcing and supply chain management



Responsive customer service



Customized solutions for different industrial applications



Long-term commitment to customers and business partners



OUR PROMISE

At Chance Power International Corporation, we believe that every successful product begins with **the right material**.

Through trusted partnerships, technical expertise, and reliable service, we help our customers build **stronger products and stronger businesses**.



Chance Power International Corporation
Your Trusted Partner in Material Sourcing & Supply



EXCLUSIVE DISTRIBUTOR



- ✓ Taiwan Nan Ya Plastics Corp.
- ✓ Taiwan Lung Meng Advanced Composite Materials
- ✓ Taiwan Kneader Machinery Co., Ltd.
- ✓ Taiwan Jiu Jiu Machinery Co., Ltd.



MACHINERY



- ▶ Rubber & Plastic Kneader m/c
- ▶ CaCo3 Grinding m/c



MATERIALS



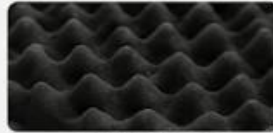
- ▶ Polyurethane Foam
- ▶ Polyethylene Foam
- ▶ Rubber Foam, Rubber Sponge
- ▶ Polyethylene Micro Fiber
- ▶ Adhesive Tape
- ▶ Plastic Films
- ▶ Stone Paper
- ▶ NANYA Plastics Materials

POLYURETHANE FOAM APPLICATIONS

VERSATILE SOLUTIONS FOR CUSHIONING, FILTRATION, SOUND ABSORPTION, ACOUSTICS AND MORE

CUSHIONING & COMFORT APPLICATIONS

Polyurethane foam provides excellent shock absorption, impact resistance and comfort.



Convoluted Foam



Die-cut Foam



High Resilience Foam



Automotive Seating & Interior



Protective Packaging & Cases



Furniture & Bedding



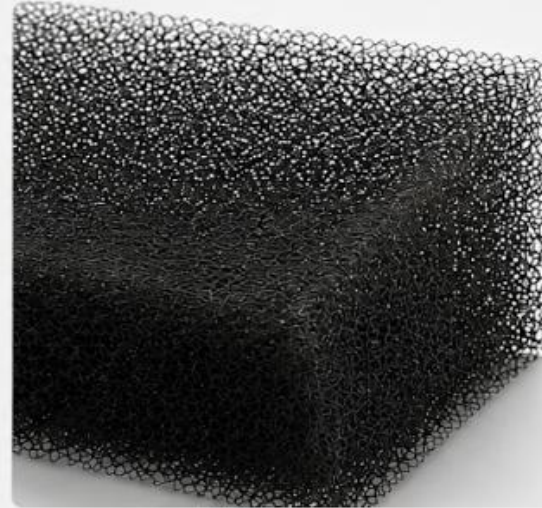
Anti-vibration Padding



Child Safety & Car Seats

FILTERING APPLICATIONS

Polyurethane foam filters allow air and liquid to pass through while trapping dust, particles and contaminants.



Sponge Filter



Pre-filter Foam



Foam Filter Pad



Air Filters



Water Filtration



Dust Filtration



Vacuum Cleaners



HVAC & Air Handling

ADDITIONAL APPLICATIONS



Footwear Insoles



Medical & Healthcare



Sports & Recreation



Tool Inserts & Organizers



Impact Protection

SOUND ABSORPTION & ACOUSTICS

Polyurethane acoustic foams reduce noise, control echo and improve sound quality.



Acoustic Wedge Foam



Wall & Ceiling Panels



Sound Absorption

OTHER APPLICATIONS



Marine & Boat Applications



Railway & Public Transportation



Home Appliance Seals & Gaskets



Construction & Insulation



Industrial Equipment

POLYURETHANE FOAM

APPLICATIONS IN AIR CONDITIONING SYSTEMS

COMFORT • EFFICIENCY • ENERGY SAVING • QUIET OPERATION • DURABLE • RELIABLE

ABOUT POLYURETHANE FOAM

Polyurethane foam is a versatile material used in air conditioning systems for sealing, insulation, filtration, noise control and vibration damping. It improves performance, energy efficiency and indoor air quality while ensuring long-lasting durability and comfort.



THERMAL INSULATION
Reduces heat transfer and improves energy efficiency



NOISE & VIBRATION DAMPING
Minimizes noise and vibration for quiet operation



SEALING & AIR TIGHT
Prevents air leakage and maintains cooling performance



MOISTURE & CHEMICAL RESISTANT
Resists moisture, chemicals and mold growth



LIGHTWEIGHT & DURABLE
Lightweight, durable and long-lasting performance



SUSTAINABLE & SAFE
Low VOC, recyclable and environmentally friendly



POLYURETHANE FOAM APPLICATIONS FOR AIR CONDITIONING SYSTEMS

1. AIR FILTER FOAM (PRE-FILTER)



- Traps dust, pollen and particles
- Improves indoor air quality
- Washable, reusable and durable

2. EVAPORATOR SEALING FOAM



- Seals around evaporator coil
- Prevents air leakage and loss of cooling
- Improves energy efficiency

3. AIR DUCT SEALING FOAM



- Seals air ducts and air passages
- Prevents air leakage and maintains proper airflow
- Enhances cooling performance

4. BLOWER MOTOR SEALING & CUSHIONING



- Cushions blower motor and housing
- Reduces vibration and operational noise
- Extends component life

5. DRAIN PAN & PIPE INSULATION



- Insulates drain pan and drain pipe
- Prevents condensation and water dripping
- Helps prevent mold and corrosion

6. NOISE & VIBRATION ABSORPTION



- Absorbs sound from airflow and components
- Reduces vibration and resonance
- Creates a quieter environment

7. CABINET & PANEL SEALING



- Seals gaps between cabinet panels
- Prevents air leakage and dust ingress
- Improves overall system efficiency

8. GASKETS & DIE-CUT FOAM PARTS



- Custom gaskets and sealing components
- Available in various shapes and densities
- Easy to install and replace

9. OUTDOOR UNIT VIBRATION PADDING



- Reduces vibration from compressor
- Protects base and mounting surfaces
- Minimizes noise transmission

10. ACOUSTIC FOAM SOLUTIONS



- Absorbs noise from blower, compressor and airflow
- Improves acoustic comfort
- Available in various profiles and densities

AIR CONDITIONER SYSTEM OVERVIEW



- 1 Air Filter Foam 2 Evaporator Sealing Foam 3 Air Duct Sealing Foam 4 Blower Motor Sealing
5 Drain Pan & Pipe Insulation 6 Noise & Vibration Absorption 7 Cabinet & Panel Sealing
8 Gaskets & Die-cut Parts 9 Outdoor Unit Vibration Padding 10 Acoustic Foam Solutions

TYPICAL FOAM TYPES



TYPICAL PROPERTIES

PROPERTY	TYPICAL VALUE
Density	20 - 80 kg/m³
Thermal Conductivity	0.028 - 0.043 W/m·K
Tensile Strength	0.15 - 0.50 MPa
Elongation at Break	100 - 300 %
Compression Set (22h @70°C)	≤ 10 - 25 %
Operating Temperature	-40°C - +100°C (Up to +120°C for special grade)
Flame Retardant	UL 94 HF-1 / V-0 (Optional)
VOC / Emission	Low VOC / REACH Compliant

KEY BENEFITS FOR AIR CONDITIONERS

- ✓ Improves cooling performance and energy efficiency
- ✓ Reduces noise, vibration and improves comfort
- ✓ Prevents air leakage and dust ingress
- ✓ Controls condensation and prevents mold
- ✓ Easy to install and compatible with various materials
- ✓ Lightweight, durable and long-lasting
- ✓ Supports eco-friendly and sustainable solutions

SUITABLE FOR ALL AC TYPES



CUSTOMIZATION & FABRICATION



STANDARDS & COMPLIANCE



WHY CHOOSE POLYURETHANE FOAM?



POLYURETHANE FOAM

APPLICATIONS IN AUTOMOTIVE HVAC SYSTEMS

Lightweight • Thermal Insulation • Noise & Vibration Damping • Sealing • Moisture Resistant • Durable • Recyclable

ABOUT POLYURETHANE FOAM

Polyurethane foam is a versatile material widely used in automotive HVAC systems. It offers excellent thermal insulation, noise reduction, vibration damping, sealing performance, moisture resistance and lightweight characteristics for improved comfort, efficiency and durability.



THERMAL INSULATION

Reduces heat transfer and improves energy efficiency



NOISE & VIBRATION DAMPING

Minimizes noise, vibration and harshness (NVH) in the cabin



SEALING & AIRTIGHTNESS

Provides effective sealing to prevent air leakage and maintain performance



MOISTURE & CHEMICAL RESISTANCE

Resists moisture, humidity and common chemicals in HVAC systems



LIGHTWEIGHT & FLEXIBLE

Reduces vehicle weight and ensures easy installation



RECYCLABLE & SUSTAINABLE

Environmentally friendly and supports sustainable mobility



KEY BENEFITS

- Improves HVAC system efficiency and performance
- Reduces noise, vibration and harshness (NVH)
- Prevents air leakage and condensation
- Maintains cabin comfort and air quality
- Lightweight - contributes to fuel efficiency / EV range
- Durable, long-lasting and cost-effective
- Environmentally friendly and recyclable options

HVAC SYSTEMS IN AUTOMOTIVE

The HVAC system regulates cabin temperature, humidity and air quality for driving comfort and safety. PU foam is used in many components to improve efficiency, reduce noise and prevent air leakage.



APPLICATIONS OF POLYURETHANE FOAM IN AUTOMOTIVE HVAC SYSTEMS

1. HVAC UNIT CASE INSULATION



- Insulates HVAC housing to reduce heat transfer and improve efficiency
- Maintains desired air temperature
- Reduces energy consumption

2. AIR DUCT INSULATION SEALING



- Minimizes between evaporator case and cover
- Prevents air leakage and bypass
- Enhances cooling performance

4. AIR MIX DOOR & FLAP SEAL



- Provides soft sealing for doors and flaps
- Prevents air leakage and noise
- Ensures accurate air flow control

5. BLOWER MOTOR SEAL & GASKET



- Seals around blower motor and housing
- Reduces vibration and noise
- Prevents air leakage

6. FILTER FRAME SEAL



- Ensures airtight seal between filter and housing
- Prevents unfiltered air bypass
- Improves air quality in cabin

7. CONDENSATE DRAIN INSULATION



- Insulates drain pipe to prevent condensation
- Avoids water dripping and odor
- Protects surrounding components

8. PIPE & TUBE INSULATION



- Insulates refrigerant and coolant lines
- Reduces heat gain/loss
- Prevents surmountation and improves efficiency

9. UNDER-DASH INSULATION



- Reduces HVAC noise transmitted into cabin
- Improves acoustic comfort
- Enhances overall NVH performance

10. NOISE & VIBRATION DAMPING



- Dampens vibration and noise
- Improves cabin comfort
- Reduces rattles and buzzes

11. VENT OUTLET SEAL



- Soft sealing around air outlets
- Reduces vibration and rattling
- Improves fit and finish

12. GASKETS & CUSTOM PARTS



- Custom shapes for complex HVAC designs
- Sealing, cushioning and protection
- Various densities & thickness available

STRUCTURE OF POLYURETHANE FOAM



TYPES OF POLYURETHANE FOAM

- Flexible PU Foam**
Soft and resilient, used for sealing and cushioning
- Semi-Rigid PU Foam**
Higher support and shape retention for structural parts
- Integrally Skinned PU Foam**
Hard skin surface for durability and better appearance
- Flame Retardant PU Foam**
Meets automotive safety standards

TYPICAL PROPERTIES (EXAMPLE)

PROPERTY	TYPICAL VALUE
Density	20 - 80 kg/m³
Thermal Conductivity	0.020 - 0.040 W/m·K
Compression Strength	20 - 200 kPa
Tensile Strength	100 - 300 kPa
Elongation at Break	100 - 250 %
Temperature Range	-40°C - +100°C (PE Foam) -40°C - +120°C (Cross-linked PE Foam)
Flame Retardant	UL 94 HF-1 / V-0 (Optional)
Water Absorption	< 5 % (by volume)

COMMON DENSITY RANGE

- Low Density (Soft)**
15 - 35 kg/m³
Excellent cushioning and sealing
- Medium Density (General Purpose)**
35 - 60 kg/m³
Balanced insulation and support
- High Density (Firm)**
60 - 120 kg/m³
High strength and durability

WHY CHOOSE POLYURETHANE FOAM FOR AUTOMOTIVE HVAC?

- Improves HVAC efficiency and reduces energy use
- Provides superior noise and vibration control
- Ensures tight sealing and prevents air leakage
- Adaptable to complex shapes and designs
- Lightweight for better fuel efficiency / EV range
- Durable, reliable and long-lasting
- Environmentally friendly and recyclable options



CONVERTING & FABRICATION CAPABILITIES

- Slitting
- Die-cutting
- Lamination
- Embossing
- Adherjet Backing
- Custom Shapes

STANDARDS & COMPLIANCE

- IATF 16949
- ISO 9001
- ISO 14001
- RoHS Compliant
- REACH Compliant

POLYURETHANE FOAM SOLUTIONS FOR BETTER HVAC PERFORMANCE

- Better Insulation
- Lower Noise
- Energy Efficient
- System Reliability
- Longer Life
- Sustainable Mobility



POLYETHYLENE FOAM APPLICATIONS

Lightweight • Flexible • Durable • Moisture Resistant • Recyclable

ABOUT POLYETHYLENE FOAM

Polyethylene (PE) foam is a closed-cell, lightweight foam known for its excellent cushioning, impact resistance, buoyancy, thermal insulation and chemical resistance.



PACKAGING & PROTECTION

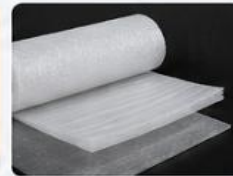
Protects products from shock, vibration, and scratches during handling, storage, and transportation.



Die-cut Inserts



Corner & Edge Protectors



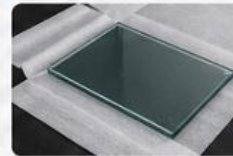
Interleaving Sheets



Custom Packaging



Electronics Protection



Surface Protection

CUSHIONING & SHOCK ABSORPTION

Absorbs impact and reduces vibration, ensuring safety and comfort.



Shock Absorption Pads



Helmet Liners



Protective Cases



Cushioning Pads

INSULATION & THERMAL MANAGEMENT

Provides excellent thermal insulation and helps maintain temperature control.



Insulation Underlay



Pipe Insulation

SPORTS & LEISURE

Lightweight, flexible and resilient for sports and recreational uses.



Exercise & Yoga Mats



Swimming Aids

AUTOMOTIVE APPLICATIONS

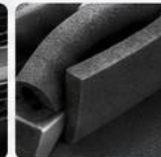
Used in automotive interior, sealing, and NVH (noise, vibration, harshness) solutions.



Door Panel Insulation



Dash & Interior Insulation



Sealing & Weather Strips

CONSTRUCTION & BUILDING

Ideal for expansion joints, underlays, backer rods and protective layers.



Floor Underlay



Expansion Joint Backer Rod

OTHER APPLICATIONS



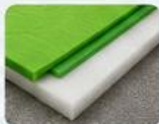
Buoyancy & Flotation



Marine & Boat Applications



Craft & DIY Projects



Agriculture & Horticulture



Laminate & Flooring Underlay



Gaskets & Seals



Display & Exhibitions



Signage & Lamination

ADVANTAGES OF PE FOAM

- ✓ Lightweight & Flexible
- ✓ Excellent Cushioning
- ✓ Water & Chemical Resistant
- ✓ Thermal Insulation
- ✓ Easy to Fabricate
- ✓ 100% Recyclable



ECO-FRIENDLY SOLUTION

POLYETHYLENE FOAM APPLICATION for AIR CONDITIONER INDUSTRY

USED IN BOTH INDOOR & OUTDOOR UNITS

Polyethylene (PE) foam is a closed-cell, cross-linked foam material providing excellent cushioning, sealing, insulation and vibration damping for air conditioner components.



Lightweight



Flexible



Moisture
Resistant



Thermal
Insulation



Shock
Absorption



Recyclable

INDOOR UNIT APPLICATIONS

1. SEALING & AIR TIGHTNESS

Used as sealing gaskets and strips to prevent air leakage between panels and components.



2. VIBRATION & NOISE CONTROL

Absorbs vibration and reduces noise between fan motor, blower, and housing parts.



3. THERMAL INSULATION

Provides thermal insulation to improve efficiency and prevent condensation.



4. DRAIN PAN & WATER PROOFING

Applied around drain pan and pipes to prevent water leakage and condensation.



5. FILTER FRAME & SUPPORT

Acts as soft support or cushion for filters and filter frames.



6. CABLE & PIPE PROTECTION

Protects wires and pipes from abrasion, vibration and contact noise.



7. PANEL & COVER PADDING

Used as padding or buffer between plastic panels to prevent damage and rattle noise.



8. SMALL PARTS & SPACERS

Used as spacers, buffers, and protective inserts for various components.



OUTDOOR UNIT APPLICATIONS

1. VIBRATION DAMPING PADS

Placed under compressor, fan motor, and base plate to absorb vibration and reduce structure-borne noise.



2. PIPE & TUBE INSULATION

Insulates refrigerant pipes to prevent heat gain/loss and avoid condensation.



3. SEALING & AIR TIGHTNESS

Sealing gaskets and strips used to prevent air leakage between panels, covers, and electrical boxes.



4. SHOCK ABSORPTION

Protects components from external impact during transportation and operation.



5. ELECTRICAL BOX PROTECTION

Used inside electrical compartments to cushion and protect electrical parts and boards.



6. PANEL & CORNER PROTECTION

Foam corner protectors and edge guards prevent damage, scratches and noise.



7. BASE & FLOOR INSULATION

Placed under outdoor unit base to reduce noise transmission and improve stability.



8. SHIPPING & HANDLING PROTECTION

Used as cushioning material for packaging to protect units and components from impact.



TYPICAL PE FOAM PROPERTIES



Closed Cell
Structure



Water &
Moisture
Resistant



Excellent
Cushioning



Lightweight
& Flexible



Thermal
Insulation



Chemical
Resistant



100%
Recyclable

COMMON PE FOAM TYPES



Sheet / Roll



Die-cut / Gasket



Tube / Pipe Insulation

BENEFITS FOR AIR CONDITIONER APPLICATIONS

- ✓ Improves product durability and reliability
- ✓ Enhances energy efficiency
- ✓ Reduces noise and vibration
- ✓ Easy to fabricate and install
- ✓ Lightweight and cost-effective
- ✓ Environmentally friendly

PE FOAM MEETS INDUSTRY NEEDS

- ▶ Consistent performance
- ▶ Custom solutions available
- ▶ RoHS compliant materials
- ▶ Wide range of densities and thicknesses

POLYETHYLENE FOAM APPLICATIONS FOR AUTOMOTIVE INDUSTRY

Lightweight • Flexible • Impact Absorption • Noise & Vibration Damping • Moisture Resistant • Recyclable



ABOUT POLYETHYLENE (PE) FOAM

Polyethylene foam is a closed-cell, cross-linked foam with excellent cushioning, energy absorption, vibration damping, thermal insulation and chemical resistance. It helps improve comfort, safety and durability in automotive applications.



LIGHTWEIGHT



SHOCK ABSORPTION



NOISE & VIBRATION DAMPING



MOISTURE RESISTANT



THERMAL INSULATION



RECYCLABLE

INTERIOR APPLICATIONS

1. DASHBOARD & INSTRUMENT PANEL



Used as a cushioning and sealing material to reduce noise, prevent rattles and improve fit & finish.

2. DOOR PANEL



Applied as cushioning and sound absorber to reduce vibration and improve interior comfort.

3. SEAT CUSHION & BACKING



Provides comfort, support and shock absorption for better driving experience.

4. HEADLINER & ROOF



Reduces noise and vibration from outside, and provides cushioning for better comfort.

5. TRUNK & LUGGAGE AREA



Protects cargo and vehicle parts from impact, vibration and scratches.

NVH (NOISE, VIBRATION, HARSHNESS) SOLUTIONS

6. FLOOR INSULATION



Reduces road noise and vibration transmitted into the cabin, improving driving comfort.

7. FIREWALL INSULATION



Helps block engine noise and heat from entering the cabin and improves thermal efficiency.

8. WHEEL ARCH LINER



Reduces road noise, absorbs impact from stones and provides cushioning protection.

9. PILLAR & BODY SEALING



Used as sealing and cushioning material to prevent air leakage and reduce vibration.

EXTERIOR & UNDERHOOD APPLICATIONS

10. BUMPER ENERGY ABSORBER



Absorbs impact energy during low-speed collisions and improves passenger safety.

11. ENGINE COMPARTMENT



Provides heat insulation, vibration damping and protects sensitive components.

PROTECTION & PACKAGING APPLICATIONS

12. PARTS PROTECTION



Protects precision parts from impact, vibration and scratches during handling and transportation.

13. EDGE & CORNER PROTECTION



Prevents damage, scratches and dents on vehicle parts during assembly, storage and shipping.

14. SPACERS & SEPARATORS



Used to separate components, prevent friction and ensure safe stacking and storage.

WHY PE FOAM FOR AUTOMOTIVE?

- ✓ Excellent impact absorption & cushioning
- ✓ Reduces noise, vibration and harshness (NVH)
- ✓ Lightweight – contributes to fuel efficiency
- ✓ Resistant to water, chemicals and corrosion
- ✓ Easy to die-cut, laminate and fabricate
- ✓ Durable, long-lasting performance
- ✓ 100% recyclable & environmentally friendly



COMMON PE FOAM TYPES USED



PE FOAM SHEET (Closed Cell)



CROSSLINKED PE FOAM XLPE



PE FOAM ROLL (Various Densities)



DIE-CUT PE FOAM PARTS



Polyethylene foam solutions enhance safety, comfort and performance in every part of the vehicle.

BETTER COMFORT • BETTER PROTECTION • BETTER PERFORMANCE

POLYETHYLENE FOAM

APPLICATIONS IN AUTOMOTIVE HVAC SYSTEMS

Lightweight • Thermal Insulation • Noise & Vibration Damping • Sealing • Moisture Resistant • Durable • Recyclable

ABOUT PE FOAM

Polyethylene foam is a closed-cell, cross-linked foam material widely used in automotive HVAC (Heating, Ventilation & Air Conditioning) systems. It offers excellent thermal insulation, noise reduction, vibration damping, sealing performance and lightweight characteristics for improved comfort, efficiency and durability.



THERMAL INSULATION

Lowers heat transfer and improves energy efficiency



NOISE & VIBRATION DAMPING

Minimizes noise, vibration and harshness (NVH) in the cabin



SEALING & GASKETING

Provides effective sealing to prevent air leakage and moisture leakage and maintain performance



MOISTURE & CHEMICAL RESISTANT

Resists moisture, humidity and common chemicals in HVAC systems



LIGHTWEIGHT & DURABLE

Reduces overall weight and ensures long-lasting performance



RECYCLABLE & SUSTAINABLE

Environmentally friendly and supports sustainable mobility



HVAC SYSTEMS IN AUTOMOTIVE

The HVAC system regulates cabin temperature, humidity and air quality for driving comfort and safety. PE foam is used in many components to improve efficiency, reduce noise and prevent air leakage.



PE FOAM APPLICATIONS IN AUTOMOTIVE HVAC

1. HVAC UNIT CASE SEALING



- Seals between housing parts
- Prevents air leakage
- Improves cooling & heating efficiency

2. AIR DUCT SEALING



- Seals duct joints and connections
- Prevents air leakage and noise
- Maintains proper air flow

3. EVAPORATOR SEALING



- Seals around evaporator case
- Prevents air bypass
- Improves A/C performance

4. AIR MIX DOOR & FLAP SEAL



- Insulates heater case
- Prevents air leakage
- Ensures accurate air control

5. BLOWER MOTOR SEAL



- Seals around blower housing
- Reduces noise and vibration
- Prevents air leakage

6. FILTER FRAME SEAL



- Seals around cabin air filter
- Prevents unfiltered air bypass
- Improves air quality

7. CONDENSATE DRAIN INSULATION



- Insulates drain pipe
- Prevents condensation & dripping
- Avoids water damage and odor

8. PIPE & TUBE INSULATION



- Insulates refrigerant pipes
- Prevents condensation
- Improves system efficiency

9. NOISE & VIBRATION DAMPING



- Damps vibration and noise
- Improves cabin comfort
- Reduces rattles and buzzes

10. UNDER-DASH INSULATION



- Insulates under-dash area
- Reduces road and HVAC noise
- Improves acoustic comfort

11. GASKETS & CUSTOM PARTS



- Custom gaskets for complex shapes
- Sealing, cushioning and protection
- Various densities & thickness available

STRUCTURE OF PE FOAM



1. Protective Skin (Optional)
Enhances surface durability
2. Closed-cell PE Foam Core
Provides insulation, cushioning and damping
3. Adhesive Layer (Optional)
For bonding (if required)
4. Release Liner (Optional)
For easy installation (tape type)

TYPES OF PE FOAM



- Sheet / Ball Foam
For insulation, cushioning and general sealing
- Tube / Adhesive Foam
With adhesive backing for easy mounting and sealing
- Die-cut / Custom Foam
Custom shapes & parts as per customer design
- Pipe / Tube Foam
For insulation of pipes and tubes

TYPICAL PROPERTIES

PROPERTY	TYPICAL VALUE
Density	20 – 80 kg/m³
Thermal Conductivity	0.030 – 0.045 W/m·K
Water Absorption	< 1.0 % (Volume)
Tensile Strength	0.2 – 0.8 MPa
Elongation at Break	100 – 200 %
Temperature Range	-40°C – +80°C (PE Foam) -40°C – +120°C (Cross-linked PE Foam)
Flame Retardant	UL 94 HF-1 / V-0 (Optional)

COMMON DENSITY RANGE

Low Density (Soft)	20 – 35 kg/m³ Good cushioning & sealing
Medium Density (General Purpose)	35 – 60 kg/m³ Balanced performance
High Density (Firm)	60 – 80 kg/m³ High strength & durability

WHY PE FOAM FOR AUTOMOTIVE HVAC?

- ✓ Improves HVAC system efficiency and performance
- ✓ Reduces noise, vibration and harshness (NVH)
- ✓ Prevents air leakage and improves sealing
- ✓ Easy to install and compatible with various materials
- ✓ Lightweight – contributes to fuel efficiency / EV range
- ✓ Durable, long-lasting and cost-effective
- ✓ Supports eco-friendly and recyclable solutions



CONVERTING & FABRICATION



STANDARDS & COMPLIANCE



PE FOAM SOLUTIONS FOR BETTER COMFORT & EFFICIENCY



RUBBER FOAM

APPLICATIONS IN AUTOMOTIVE INDUSTRY

- ✓ Lightweight
- ✓ Flexible
- ✓ Noise & Vibration Damping
- ✓ Thermal Insulation
- ✓ Sealing
- ✓ Flame Retardant
- ✓ Durable



ABOUT RUBBER FOAM

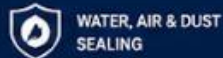
Rubber foam is a closed-cell elastomeric foam manufactured from NBR, EPDM, CR, or SBR rubber. It provides excellent cushioning, sealing, thermal insulation, and acoustic performance, making it ideal for a wide range of automotive applications.



NOISE & VIBRATION
DAMPING



THERMAL
INSULATION



WATER, AIR & DUST
SEALING



SHOCK
ABSORPTION



FLAME
RETARDANT



DURABLE &
LONG LASTING

AUTOMOTIVE APPLICATIONS

NVH (NOISE, VIBRATION, HARSHNESS)



- Absorbs engine and road noise
- Reduces vibration and rattles
- Improves cabin quietness and comfort

DOOR SYSTEMS



- Sealing between door panel and body
- Water & dust sealing
- Vibration dampening

SEATING SYSTEMS



- Cushioning and comfort
- Vibration absorption
- Pressure distribution support

INSTRUMENT PANEL & INTERIOR TRIM



- Reduces squeaks and rattles
- Improves fit and finish
- Provides soft touch and cushioning

TRUNK & LUGGAGE AREA



- Cushioning for cargo and tools
- Vibration and shock absorption
- Protection from impact and damage

SEALING & WEATHERSTRIP



- Provides air, water and dust tight sealing
- Prevents wind noise and water leakage
- Withstands compression and aging

ENGINE COMPARTMENT



- Heat insulation and sound absorption
- Protects components from heat and vibration
- Flame retardant for safety

AIR CONDITIONING & HVAC



- Sealing of air ducts and housings
- Prevents air leakage
- Thermal insulation and condensation control

BATTERY & ELECTRICAL COMPONENTS



- Shock and vibration protection
- Electrical insulation
- Keeps components secure and stable

EXTERIOR APPLICATIONS



- Sealing of lights and mirrors
- Shock absorption
- Weather resistance and durability

TYPICAL PROPERTIES

Material	NBR / EPDM / CR / SBR Rubber Foam
Structure	Closed Cell
Density	40 - 250 kg/m ³
Temperature Range	-40°C to +110°C (up to +150°C for some grades)
Thermal Conductivity	0.032 - 0.045 W/m·K
Flame Retardant	UL94 HF-1 / FMVSS 302 / DIN 75200
Water Absorption	Low (Closed Cell Structure)
Color	Black (Other colors available upon request)

KEY BENEFITS

- ✓ Excellent noise and vibration reduction
- ✓ Superior sealing performance
- ✓ Thermal insulation and energy efficiency
- ✓ Lightweight and easy to install
- ✓ Resistant to water, oils, chemicals and UV
- ✓ Long service life and reliable performance
- ✓ Customizable in density, thickness and shape



RUBBER FOAM TYPES

			
NBR FOAM	EPDM FOAM	CR (NEOPRENE) FOAM	SBR FOAM
Oil & fuel resistance Good mechanical property	Weather & ozone resistance Good aging performance	Flame retardant Good adhesion	Economical General purpose



Rubber foam solutions for a quieter, safer and more comfortable drive.

BETTER COMFORT

BETTER PROTECTION

BETTER PERFORMANCE

RUBBER FOAM APPLICATIONS FOR AIR CON INDUSTRY

Reliable Sealing • Thermal Insulation • Vibration Damping • Noise Reduction



Thermal Insulation



Noise & Vibration Damping



Sealing & Airtight Performance



Moisture & Water Resistant



Flame Retardant



Durable & Long Lasting



Easy to Install & Fabricate

ABOUT RUBBER FOAM

Rubber foam is a closed-cell elastomeric foam that provides excellent insulation, sealing, and vibration damping. It is widely used in both indoor and outdoor air conditioner units to improve efficiency, durability and comfort.

INDOOR UNIT APPLICATIONS

1. EVAPORATOR INSULATION



Reduces heat transfer, prevents condensation and improves cooling efficiency.

2. AIR DUCT SEALING



Provides airtight sealing between air duct and casing to prevent air leakage and improve efficiency.

3. DRAIN PAN & PIPE INSULATION



Prevents condensation and dripping, reduces noise of water flow and improves durability.

4. FAN & MOTOR DAMPING



Absorbs vibration and noise from fan and motor, ensuring quiet operation.

5. CASING SEALING



Seals gaps between panels and covers to prevent air leakage and improve performance.

6. PIPE PENETRATION SEALING



Seals the gap where pipes pass through walls or casing, preventing air and water leakage.

7. SOUND ABSORPTION PADDING



Reduces airborne noise inside the unit for a quieter and more comfortable environment.

8. WIRING & COMPONENT PROTECTION



Cushions electrical components and wiring from vibration and impact.

OUTDOOR UNIT APPLICATIONS

1. COMPRESSOR PADS



Dampens vibration and reduces operating noise, protecting the compressor and base plate.

2. PIPE & TUBE INSULATION



Prevents heat gain/loss, reduces condensation and improves energy efficiency.

3. ELECTRICAL BOX SEALING



Protects electrical components from dust, water and vibration with reliable sealing.

4. FAN & MOTOR DAMPING



Reduces vibration and noise from fan and motor for quieter operation.

5. BASE & FOOT PADS



Provides shock absorption, reduces vibration transfer and protects mounting surface.

6. AIR OUTLET SEALING



Seals gaps around air outlet to prevent air recirculation and improve performance.

7. PANEL & CORNER PROTECTION



Protects edges and corners from impact, scratches and weather exposure.

8. WEATHER STRIP SEALING



Provides weatherproof sealing against rain, wind, dust and UV exposure.

KEY PROPERTIES

Material	NBR / EPDM / CR Rubber Foam
Structure	Closed Cell
Density	40 - 200 kg/m ³
Temperature Range	-40°C to +110°C (up to +150°C for some grades)
Thermal Conductivity	0.032 - 0.045 W/m·K
Water Absorption	Low (Closed Cell Structure)
Flame Rating	UL94 HF-1 / FMVSS 302 (Optional)
Color	Black (Custom colors available)

KEY BENEFITS

- ✓ Improves energy efficiency
- ✓ Reduces noise and vibration
- ✓ Prevents condensation and leakage
- ✓ Enhances system reliability and lifespan
- ✓ Resistant to water, UV, ozone and chemicals
- ✓ Easy to cut, install and maintain
- ✓ Lightweight and space-saving
- ✓ Supports sustainable green building

TYPICAL APPLICATION AREAS



Cooling Performance



Noise Control



Moisture & Condensation Control



Energy Efficiency



System Protection

Rubber foam solutions for better comfort, higher efficiency and longer lasting performance in every air conditioner system.



RUBBER FOAM TYPES



NBR FOAM
(General Purpose)
Good mechanical properties & oil resistant



EPDM FOAM
(Weather Resistant)
Excellent weather, ozone & UV resistance



CR (NEOPRENE) FOAM
(Flame Retardant)
Good flame resistance & adhesion



ACOUSTIC FOAM
(Sound Absorption)
Excellent sound absorption & noise reduction



Improving Comfort

Enhancing Efficiency

Reducing Noise & Vibration

Protecting Components

Delivering Reliable Performance

RUBBER SPONGE

APPLICATIONS IN AUTOMOTIVE

SEALING • INSULATION • NOISE & VIBRATION DAMPING • PROTECTION • DURABLE • RELIABLE

ABOUT RUBBER SPONGE

Rubber sponge is a lightweight, flexible and resilient material with a closed or open cell structure. It provides excellent sealing, insulation, vibration damping and sound absorption for automotive applications. Resistant to temperature, moisture, weathering, oil and many chemicals.



EXCELLENT SEALING
Prevents air, dust, water and noise leakage



NOISE & VIBRATION DAMPING
Reduces noise and vibration for a quieter ride



THERMAL INSULATION
Maintains temperature and improves HVAC efficiency



MOISTURE & CHEMICAL RESISTANT
Resists water, oil, UV and most chemicals



LIGHTWEIGHT & FLEXIBLE
Easy to install, compressible and conformable



DURABLE & LONG LASTING
High resilience with long service life in harsh conditions



RUBBER SPONGE APPLICATIONS IN AUTOMOTIVE

1. DOOR SEAL



- Seals door gaps
- Prevents wind noise and water leakage
- Improves cabin quietness

2. WINDOW SEAL



- Seals window glass and frames
- Reduces wind noise and dust ingress
- Enhances driving comfort

3. HOOD & TRUNK SEAL



- Seals hood and trunk edges
- Prevents water, dust and noise entry
- Protects from vibration and impact

4. WEATHERSTRIP / BODY SEAL



- Seals body joints and panels
- Blocks air, water and dust
- Improves vehicle aerodynamics

5. GLASS RUN CHANNEL



- Cushions glass movement
- Prevents rattling and vibration
- Protects glass and trim

6. SUNROOF SEAL



- Seals sunroof perimeter
- Prevents water and wind leakage
- Provides smooth operation

7. DASHBOARD PAD



- Absorbs vibration and impact
- Improves safety and comfort
- Reduces squeak and rattle

8. HVAC SEAL



- Seals air ducts and housings
- Prevents air leakage
- Improves cooling & heating efficiency

9. ENGINE COMPARTMENT INSULATION



- Reduces engine noise and heat
- Thermal insulation
- Enhances under-hood comfort

10. VIBRATION DAMPING PAD



- Damps vibration from chassis and body
- Protects components
- Extends part life

11. CABLE & WIRE PROTECTION



- Protects cables and wires
- Prevents abrasion and chafing
- Flexible and easy to install

12. BUMPER & TRIM PADDING



- Cushions impact and vibration
- Prevents paint damage and wear
- Improves NVH performance

TYPES OF RUBBER SPONGE



TYPICAL PROPERTIES

PROPERTY	TYPICAL VALUE
Density	80 - 400 kg/m ³
Hardness (Shore A)	10 - 60
Tensile Strength	≥ 0.5 MPa
Elongation at Break	≥ 150 %
Compression Set (22h @ 70°C)	≤ 25 %
Temperature Range	-40°C to +120°C (Up to +150°C for EPDM)
Flammability	UL 94 HF-1 (Typical)

KEY BENEFITS

- ✓ Reduces noise, vibration and harshness (NVH)
- ✓ Improves sealing performance
- ✓ Prevents air, water, dust and light leakage
- ✓ Enhances thermal insulation
- ✓ Resistant to weather, ozone and UV
- ✓ Easy to install and maintain
- ✓ Cost-effective and reliable solution

COMMON PRODUCTS / FORMS



CONVERTING & FABRICATION



STANDARDS & COMPLIANCE



IDEAL FOR



BETTER SEALING. BETTER COMFORT. BETTER DRIVE.



- ✓ Better NVH Performance
- ✓ Better Protection
- ✓ Better Durability
- ✓ Better Driving Experience

RUBBER SPONGE

APPLICATIONS IN AIR CONDITIONING SYSTEMS

SEALING • INSULATION • NOISE & VIBRATION DAMPING • PROTECTION • EFFICIENCY • DURABLE

ABOUT RUBBER SPONGE

Rubber sponge is a lightweight, flexible and resilient material with a closed or open cell structure. It provides excellent sealing, insulation, damping and sound absorption for air conditioning systems. Resistant to temperature, moisture, condensation and many chemicals.



EXCELLENT SEALING

Prevents air leakage and maintains system efficiency



NOISE & VIBRATION DAMPING

Reduces noise and vibration for quiet operation



THERMAL INSULATION

Minimizes heat transfer and improves energy efficiency



MOISTURE & CHEMICAL RESISTANT

Resists moisture, condensation, mold and most chemicals



LIGHTWEIGHT & FLEXIBLE

Easy to install and conforms to complex shapes



DURABLE & LONG LASTING

High resilience with long service life in harsh conditions



RUBBER SPONGE APPLICATIONS IN AIR CONDITIONING SYSTEMS

1. AIR FILTER SEAL



- Seals around air filter frame
- Prevents unfiltered air bypass
- Improves air quality and efficiency

2. EVAPORATOR SEAL



- Seals around evaporator case
- Prevents air leakage and loss of cooling
- Improves cooling performance

3. AIR DUCT SEAL



- Seals air ducts and joints
- Prevents air leakage and maintains airflow efficiency
- Enhances system performance

4. BLOWER MOTOR SEAL



- Cushions blower motor and housing
- Reduces vibration and operational noise
- Extends motor life

5. DRAIN PAN & PIPE INSULATION



- Insulates drain pan and drain pipe
- Prevents condensation and water dripping
- Helps prevent mold and corrosion

6. CABINET & PANEL SEAL



- Seals gaps between panels and covers
- Prevents air leakage and dust ingress
- Improves overall efficiency

7. NOISE ABSORPTION PAD



- Absorbs sound from airflow and components
- Reduces noise transmission
- Creates a quieter environment

8. PIPE INSULATION



- Insulates refrigerant and copper pipes
- Prevents condensation and heat loss
- Improves system efficiency

9. VIBRATION DAMPING PAD



- Damps vibration from compressor and outdoor unit
- Reduces noise and vibration
- Protects mounting surfaces

10. COMPRESSOR ENCLOSURE PAD



- Cushions compressor and enclosure
- Reduces vibration and noise
- Extends compressor life

11. GASKETS & DIE-CUT PARTS



- Custom gaskets and sealing components
- Available in various shapes and densities
- Easy to install and replace

12. SOUND & HEAT INSULATION



- Provides heat insulation and sound absorption
- Improves energy efficiency
- Enhances comfort

TYPES OF RUBBER SPONGE



Closed Cell Sponge Open Cell Sponge EPDM Sponge NBR Sponge CR (Neoprene) Sponge Foam Type (Adhesive Backed)

TYPICAL PROPERTIES

PROPERTY	TYPICAL VALUE
Density	80 - 400 kg/m ³
Hardness (Shore A)	10 - 60
Tensile Strength	≥ 0.5 MPa
Elongation at Break	≥ 150 %
Compression Set (22h @ 70°C)	≤ 25 %
Temperature Range	-40°C to +120°C (Up to +150°C for EPDM)
Water Absorption	≤ 10 %
Flammability	UL 94 HF-1 (Typical)

KEY BENEFITS FOR AIR CONDITIONING

- ✓ Prevents air leakage and improves efficiency
- ✓ Reduces noise, vibration and harshness (NVH)
- ✓ Prevents condensation and water leakage
- ✓ Enhances thermal insulation
- ✓ Resistant to moisture, ozone and UV
- ✓ Easy to install and maintain
- ✓ Durable, long lasting and cost-effective
- ✓ Supports energy saving and environmental goals



SUITABLE FOR ALL AC TYPES



CONVERTING & FABRICATION



STANDARDS & COMPLIANCE



WHY CHOOSE RUBBER SPONGE?



**BETTER AIR. BETTER COMFORT.
BETTER EFFICIENCY.**

Rubber Sponge Solutions for
High Performance Air Conditioning Systems.

RUBBER SPONGE APPLICATIONS IN HOME APPLIANCES

SEALING • INSULATION • NOISE & VIBRATION DAMPING • PROTECTION • EFFICIENCY • DURABLE

ABOUT RUBBER SPONGE

Rubber sponge is a lightweight, flexible and resilient material with a closed or open cell structure. It provides excellent sealing, insulation, damping and sound absorption for home appliances. Resistant to temperature, moisture, chemicals and aging for long-lasting performance.



EXCELLENT SEALING

Prevents air, water, dust and noise leakage



NOISE & VIBRATION DAMPING

Reduces vibration and noise for quieter operation



THERMAL INSULATION

Minimizes heat transfer and improves energy efficiency



MOISTURE & CHEMICAL RESISTANT

Resists moisture, oil, detergents and household chemicals



LIGHTWEIGHT & FLEXIBLE

Easy to install and conforms to complex shapes



DURABLE & LONG LASTING

High resilience with long service life in home environments



RUBBER SPONGE APPLICATIONS IN HOME APPLIANCES

1. REFRIGERATOR SEAL



- Seals door gaps and prevents cold air leakage
- Improves energy efficiency
- Reduces condensation and frost build-up

2. WASHING MACHINE SEAL



- Seals door boot and dispenser
- Prevents water leakage
- Reduces vibration and noise

3. AIR CONDITIONER SEAL



- Seals air outlet and panel gaps
- Prevents air leakage and dust entry
- Improves cooling efficiency

4. MICROWAVE OVEN SEAL



- Seals door frame and cavity
- Prevents heat leakage
- Reduces vibration and noise

5. VACUUM CLEANER DAMPING



- Absorbs vibration from motor
- Reduces operational noise
- Improves user comfort

6. DISHWASHER SEAL



- Seals door perimeter and tub
- Prevents water leakage
- Enhances washing performance

7. RICE COOKER INSULATION



- Insulates lid and body
- Reduces heat loss
- Improves cooking efficiency

8. OVEN & STOVE SEAL



- Seals door and control panel
- Prevents heat and gas leakage
- Improves safety and efficiency

9. BLENDER / MIXER DAMPING



- Damps vibration from motor
- Prevents movement on surface
- Reduces noise during operation

10. FAN & AIR PURIFIER SEAL



- Seals housing and filter frame
- Prevents air leakage and dust bypass
- Improves air flow efficiency

11. ELECTRIC KETTLE SEAL



- Seals lid and base
- Prevents steam leakage
- Improves safety and comfort

12. SMALL APPLIANCE PROTECTION



- Protects components from impact
- Prevents scratches and rattle
- Enhances durability and appearance

TYPES OF RUBBER SPONGE



Closed Cell Sponge Open Cell Sponge EPDM Sponge NBR Sponge CR (Neoprene) Sponge Self-adhesive Sponge

TYPICAL PROPERTIES

PROPERTY	TYPICAL VALUE
Density	80 – 400 kg/m ³
Hardness (Shore A)	10 – 60
Tensile Strength	≥ 0.5 MPa
Elongation at Break	≥ 150 %
Compression Set (22h @ 70°C)	≤ 25 %
Temperature Range	-40°C to +120°C (Up to +150°C for EPDM)
Water Absorption	≤ 10 %
Flammability	UL 94 HF-1 (Typical)

KEY BENEFITS FOR HOME APPLIANCES

- ✓ Prevents leakage of air, water, steam and heat
- ✓ Reduces noise, vibration and harshness (NVH)
- ✓ Enhances energy efficiency
- ✓ Improves safety and user comfort
- ✓ Resistant to moisture, detergents and oils
- ✓ Easy to install and maintain
- ✓ Long service life and cost-effective
- ✓ Supports eco-friendly and recyclable solutions

COMMON PRODUCTS / FORMS



Sheet / Roll Tube / Pipe Profile / Extrusion Die-cut Parts & Gaskets Adhesive Backing

CONVERTING & FABRICATION



Slitting Die-cutting Lamination Embossing Adhesive Backing Custom Shapes

STANDARDS & COMPLIANCE



IATF 16949 ISO 9001 ISO 14001 RoHS Compliant REACH Flame Rated

IDEAL FOR



Refrigerators Washing Machines Air Conditioners Microwave Ovens Vacuum Cleaners Small Appliances

BETTER SEALING. BETTER COMFORT. BETTER PERFORMANCE.

Rubber Sponge Solutions for Reliable and Efficient Home Appliances.



POLYETHYLENE MICRO FIBER

APPLICATIONS IN AUTOMOTIVE INDUSTRY

Lightweight • Soft & Flexible • High Performance • Durable • Chemical Resistant • Recyclable

ABOUT POLYETHYLENE MICRO FIBER

Polyethylene micro fiber is an ultra-fine fiber made from 100% polyethylene. It delivers excellent softness, cushioning, filtration, and durability. With its fine fiber structure, it provides superior performance in thermal management, acoustic control, liquid absorption, and surface protection across a wide range of automotive applications.



KEY FEATURES

-  **Lightweight & Soft Touch**
Reduces weight while providing comfort
-  **Excellent Filtration**
Captures dust, fine particles and contaminants
-  **Thermal Insulation**
Improves heat insulation and temperature stability
-  **Sound Absorption**
Reduces noise, vibration and harshness (NVH)
-  **High Absorbency**
Absorbs liquids and oils efficiently
-  **Chemical & Moisture Resistant**
Resistant to water, chemicals and corrosion
-  **Recyclable & Sustainable**
100% recyclable and environmentally friendly

AUTOMOTIVE APPLICATIONS

1. INTERIOR TRIM & HEADLINER



- Provides soft touch and premium feel
- Improves acoustic comfort
- Lightweight alternative to foam backers

2. SEAT CUSHION & BACKING



- Enhances comfort and cushioning
- Improves breathability
- Reduces noise and vibration

3. DOOR PANEL & ARMREST



- Improves soft touch and appearance
- Reduces road noise and vibration
- Enhances thermal insulation

4. TRUNK TRIM & SIDE LINING



- Provides cushioning and protection
- Reduces noise and rattles
- Lightweight and easy to install

5. DASH INSULATION PAD



- Improves thermal insulation
- Reduces heat transfer and glare
- Enhances acoustic performance

6. ENGINE COMPARTMENT INSULATION



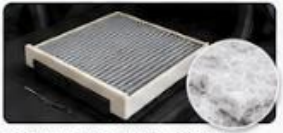
- Withstands high temperature
- Reduces engine noise
- Acts as heat barrier

7. AIR FILTER MEDIA



- Captures fine dust and particles
- High dust holding capacity
- Improves air quality and engine performance

8. HVAC FILTER MEDIA



- Filters dust, pollen and fine particles
- Improves cabin air quality
- Antimicrobial treatment available

9. LIQUID ABSORPTION PADS



- Absorbs oil, fuel, and other liquids
- Used in car care kits and trays
- Keeps components clean and dry

10. BATTERY PACK & EV INSULATION



- Provides thermal management
- Electrical insulation
- Enhances safety and performance

11. WIRING HARNESS TAPE & WRAP



- Noise reduction and abrasion protection
- Prevents wire chafing
- Flexible and easy to wrap

12. SEALING & GASKET FILLER



- Fills gaps and prevents air leakage
- Improves sealing performance
- Durable and moisture resistant

KEY BENEFITS

- ✓ Improves NVH (Noise, Vibration, Harshness) performance
- ✓ Enhances comfort and driving experience
- ✓ Contributes to lightweight vehicle design
- ✓ Excellent filtration and liquid absorption
- ✓ Resistant to moisture, chemicals and mildew
- ✓ Easy to convert, cut, laminate and sew
- ✓ 100% recyclable and eco-friendly

TYPICAL PROPERTIES

Material	100% Polyethylene
Fiber Diameter	Micro Fiber (Denier: 0.5 - 50)
Basis Weight	20 - 300 g/m ² (customizable)
Thickness	1 - 20 mm (customizable)
Operating Temp.	-40°C to +80°C
Melting Point	Approx. 130°C
Moisture Absorption	Very Low
Chemical Resistance	Good (Acids, Alkalis, Solvents)
Flame Resistance	Available (upon request)
Recyclability	100% Recyclable

PROCESSING OPTIONS



AVAILABLE FORMS



IDEAL SOLUTION FOR

-  Noise & Vibration Control
-  Thermal Management
-  Filtration
-  Cushioning & Protection
-  Liquid Absorption



SUITABLE FOR ALL VEHICLE TYPES



SUSTAINABLE MATERIAL

Polyethylene micro fiber is 100% recyclable and supports sustainable automotive manufacturing.

CUSTOM SOLUTIONS FOR YOUR NEEDS

We provide tailor-made solutions in density, thickness, width, and performance to meet your specific automotive requirements.



POLYETHYLENE MICRO FIBER

APPLICATIONS IN AIR CONDITIONER INDUSTRY

Lightweight • Soft & Flexible • High Insulation Performance • Moisture Resistant • Durable • Eco-friendly

ABOUT POLYETHYLENE MICRO FIBER

Polyethylene micro fiber is an ultra-fine fiber material with excellent insulation, sound absorption, and filtration performance. It is widely used in both indoor and outdoor air conditioner units to improve efficiency, reduce noise, and enhance durability.



KEY PROPERTIES

-  **Excellent Thermal Insulation**
Reduces heat transfer and improves energy efficiency
-  **High Air Filtration Efficiency**
Captures fine dust, fibers and particles
-  **Noise & Vibration Absorption**
Reduces operating noise and vibration
-  **Moisture Resistant**
Resists water absorption and mildew
-  **Lightweight & Flexible**
Easy to cut, shape and install
-  **Chemical & Corrosion Resistant**
Resists chemicals and corrosion
-  **100% Recyclable & Eco-friendly**
Environmentally responsible material

INDOOR UNIT APPLICATIONS

1. AIR FILTER MEDIA



- Captures fine dust, pollen and allergens
- Improves indoor air quality
- Washable type available

2. EVAPORATOR INSULATION PAD



- Prevents condensation and dripping
- Improves cooling efficiency
- Reduces noise from airflow

3. BLOWER FAN INSULATION



- Reduces fan operating noise
- Absorbs vibration
- Improves acoustic comfort

4. DRAIN PAN PAD



- Prevents condensation and water leakage
- Protects against mold and bacteria
- Extends product life

5. AIR DUCT LINING



- Improves air sealing
- Reduces airflow noise
- Enhances thermal efficiency

6. CONTROL BOX INSULATION



- Insulates electronic components
- Provides dust protection
- Improves reliability

7. SOUND ABSORPTION PAD



- Absorbs sound and vibration
- Reduces resonance noise
- Enhances quiet operation

8. CASING & PANEL INSULATION



- Improves thermal insulation
- Prevents heat transfer
- Enhances energy efficiency

OUTDOOR UNIT APPLICATIONS

1. COMPRESSOR INSULATION COVER



- Maintains compressor temperature
- Improves efficiency
- Reduces noise and vibration

2. CONDENSER CASING LINER



- Provides thermal insulation
- Reduces heat transfer
- Protects casing from temperature change

3. FAN SHROUD & DUCT LINER



- Reduces air turbulence noise
- Improves airflow efficiency
- Absorbs vibration

4. ELECTRICAL BOX INSULATION



- Insulates and protects components
- Prevents dust and moisture ingress
- Enhances safety and reliability

5. BASE PAN INSULATION PAD



- Reduces vibration and noise
- Protects components from heat
- Improves overall durability

6. PIPE & TUBE INSULATION WRAP



- Prevents condensation
- Improves thermal efficiency
- Protects from heat loss/gain

7. SOUND ABSORPTION PAD



- Reduces sound radiation
- Improves acoustic performance
- Enhances customer comfort

8. WEATHERPROOF COVER INSERT



- Provides insulation and protection
- Resists moisture and UV
- Extends product life

BENEFITS IN AIR CONDITIONER SYSTEMS

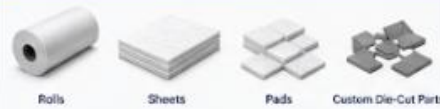
- ✓ Improves energy efficiency and cooling performance
- ✓ Reduces noise and vibration for quiet operation
- ✓ Enhances air quality and filtration efficiency
- ✓ Prevents condensation and protects components
- ✓ Lightweight, easy to cut and install
- ✓ Long-lasting and durable in harsh environments
- ✓ 100% recyclable and environmentally friendly



TYPICAL PROPERTIES

Material	100% Polyethylene
Fiber Diameter	Micro Fiber (0.5 - 50)
Basis Weight	10 - 300 g/m ² (customizable)
Thickness	2 - 30 mm (customizable)
Thermal Conductivity	0.032 - 0.040 W/m-K
Operating Temperature	-40°C to +80°C
Moisture Absorption	Very Low
Flame Retardant	Available (Upon Request)
Recyclability	100% Recyclable

AVAILABLE FORMS



CUSTOM SOLUTIONS

We provide tailored solutions in thickness, density, shape and function to meet your specific design and performance requirements.



IDEAL FOR

-  Wall-mounted AC (Split Type)
-  Cassette & Ceiling AC
-  Ducted & Floor Standing AC
-  VRF / VRV Systems
-  Heat Pump Systems

WHY CHOOSE POLYETHYLENE MICRO FIBER?

- ✓ Superior insulation and filtration performance
- ✓ Enhances product quality and customer satisfaction
- ✓ Supports energy saving and sustainability goals
- ✓ Reliable material for long-term performance
- ✓ Suitable for both indoor and outdoor applications



BETTER INSULATION • BETTER AIR QUALITY • BETTER PERFORMANCE • BETTER FUTURE

ADHESIVE TAPE

Solutions for Every Industry

Bonding | Sealing | Mounting | Protection | Masking | Splicing | More

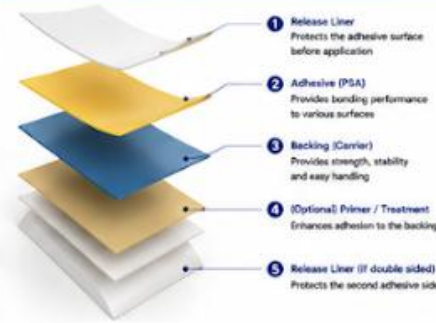
ABOUT ADHESIVE TAPE

Adhesive tapes are engineered bonding solutions made of a pressure-sensitive adhesive (PSA) coated onto a backing material, designed to provide reliable performance across a wide range of industrial and commercial applications.

- ✓ Easy to use
- ✓ Cost-effective
- ✓ Strong & reliable bonding
- ✓ Versatile
- ✓ Clean & efficient
- ✓ Customizable



STRUCTURE OF ADHESIVE TAPE



TYPES OF ADHESIVE TAPE

- Single Sided Tape**
 - General purpose
 - Mounting, sealing
 - Splicing, masking
- Double Sided Tape**
 - Mounting, bonding
 - Nameplate, signage
 - Assembly
- Foam Tape**
 - Cushioning, sealing
 - Vibration damping
 - Gap filling
- Filament / Reinforced Tape**
 - Heavy duty bonding
 - Palletizing, strapping
 - Securing
- Specialty Tape**
 - High temperature
 - Electrical insulation
 - Surface protection

INDUSTRY APPLICATIONS

AUTOMOTIVE



- Interior & exterior trim
- Wire harness fixing
- Emblem & nameplate
- Sealing & NVH reduction
- Battery & electronic parts assembly

ELECTRONICS



- Component mounting
- FPC & PCB fixation
- Insulation & protection
- EMI shielding
- Heat dissipation
- Display assembly

HOME APPLIANCES



- Panel bonding
- Insulation sealing
- Foam mounting
- Cable management
- Vibration damping

CONSTRUCTION



- Glass & panel bonding
- Sealing & weatherproofing
- Surface protection
- Flooring installation
- Duct sealing

PACKAGING & PRINTING



- Carton sealing
- Bag sealing
- Splicing
- Labeling
- Surface protection

MEDICAL



- Medical device assembly
- Skin-friendly tapes
- Sterilization indicator
- Wound care & dressing
- Tubing & component fixing

TRANSPORTATION



- Aircraft interior bonding
- Rail & bus assembly
- Marine sealing
- Panel & floor bonding
- Wire & cable fixing

GENERAL INDUSTRY



- Metal & plastic bonding
- Splicing & masking
- Surface protection
- Insulation & shielding
- Maintenance & repair

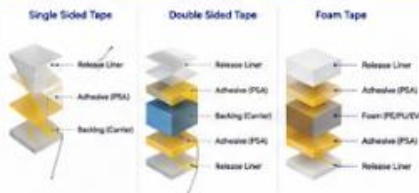
ADHESIVE TECHNOLOGY (PSA)

Adhesive Type	Features	Applications
Acrylic	High adhesion, UV & weather resistant	Automotive, Construction, Electronics
Rubber (Natural/Synthetic)	High initial tack, cost-effective	Packaging, General purpose
Hot Melt	Good shear strength, quick bonding	Packaging, Labeling, Assembly
Silicone	High temperature resistance	Electronics, Automotive, Industrial
VHB™ Acrylic Foam	Excellent bonding & durability	Automotive, Construction, Signage
Removable / Low Tack	Easy remove, no residue	Masking, Decoration, Temporary Fixing

BACKING (CARRIER) MATERIALS

Material	Features	Typical Applications
BCPP Film	Lightweight, moisture resistant	Packaging, Splicing, General purpose
PET Film	High strength, chemical resistant	Electronics, Automotive, Industrial
PVC Film	Flexible, conformable	Electrical insulation, Bundling
Foam (PE / PU / EVA)	Cushioning, gap filling	Automotive, Building, Appliance
Aluminum Foil	Heat & flame resistant, reflective	HVAC, Automotive, Electronics
Cloth / Fabric	Tear resistant, high strength	Heavy duty, Bundling, Safety

ADHESIVE TAPE CONSTRUCTION EXAMPLES



* Construction can be customized based on performance requirements.

TYPICAL TAPE PROPERTIES

Property	Typical Value (Example)
Total Thickness	0.05 mm - 2.0 mm
Adhesion to Steel	0.5 - 50 N/25 mm
Tensile Strength	20 - 300 N/25 mm
Elongation at Break	50% - 300%
Temperature Resistance	-40°C - 200°C
UV Resistance	Good - Excellent
Chemical Resistance	Good (varies by material)
Flame Retardant	Available (UL 94 V-0)

CONVERTING & CUSTOMIZATION



WHY CHOOSE ADHESIVE TAPE?

- ✓ Excellent performance & reliability
- ✓ Improves productivity & efficiency
- ✓ Reduces weight & saves space
- ✓ Clean appearance & no mechanical fasteners
- ✓ Cost-effective & easy to apply
- ✓ Available in eco-friendly solutions



INDUSTRY STANDARDS & COMPLIANCE



EXAMPLES OF OUR PRODUCTS



SUSTAINABLE & ECO-FRIENDLY SOLUTIONS

- ✓ Solvent-free adhesives
- ✓ Low VOC emissions
- ✓ Recyclable backing materials
- ✓ Sustainable packaging options

**STRONG BOND.
SMART SOLUTION.
ENDLESS POSSIBILITIES.**



ADHESIVE TAPE APPLICATIONS FOR AIR CONDITIONER INDUSTRY

High Performance Bonding • Reliable Sealing • Vibration Control • Thermal Management • Clean & Efficient Assembly

ABOUT ADHESIVE TAPE

Adhesive tapes are essential in air conditioner manufacturing for bonding, sealing, insulating, mounting, and protecting components. They improve production efficiency, ensure product reliability, reduce vibration and noise, and enhance the overall performance and durability of both indoor and outdoor units.



KEY BENEFITS

-  **Excellent Adhesion**
Strong bonding on various surfaces
-  **Thermal Resistance**
Withstands wide temperature ranges
-  **Vibration & Noise Reduction**
Dampens vibration and prevents rattle
-  **Moisture & Weather Resistance**
Seals out moisture, dust and UV
-  **Clean & Aesthetic Finish**
Provides neat appearance and protection
-  **Process Efficiency**
Easy to apply, reduces assembly time
-  **Reliability & Durability**
Ensures long-term performance and safety

INDOOR UNIT APPLICATIONS

1. EVAPORATOR SEALING



- Seals gaps and prevents air leakage
- Improves cooling efficiency
- Moisture and dust resistant

2. DRAIN PAN FIXING



- Bonds insulation to drain pan
- Prevents water leakage and noise
- High temperature & moisture resistant

3. AIR DUCT SEALING



- Seals joints and flanges
- Prevents air leakage
- Enhances energy efficiency

4. CONTROL BOX BONDING



- Secures wires, harness and components
- Insulates and protects
- Flame retardant options available

5. DISPLAY PANEL MOUNTING



- Strong bonding for nameplate and panel
- Vibration resistance
- Clean appearance

6. FOAM & INSULATION FIXING



- Bonds foam, sponge and insulation
- Prevents displacement and noise
- Long-lasting adhesion

7. WIRE HARNESS BUNDLING



- Bundles and secures wire harness
- Abrasion resistance
- Improves assembly efficiency

8. LOUVER & FLAP FIXING



- Fixes foam or rubber to louvers
- Reduces vibration and rattling
- Enhances user comfort

OUTDOOR UNIT APPLICATIONS

1. COMPRESSOR MOUNTING



- Bonds mounting pads and brackets
- Vibration absorption
- High durability and reliability

2. PIPE INSULATION SEALING



- Seals pipe insulation seams
- Prevents condensation and water ingress
- UV and weather resistant

3. CONDENSER SHROUD FIXING



- Secures shroud and components
- Reduces vibration and noise
- Strong adhesion to plastics & metals

4. ELECTRICAL BOX SEALING



- Seals cover and enclosure
- Protects from dust and water
- Insulation and safety

5. BASE PAN & CHASSIS SEALING



- Seals gaps and joints
- Prevents water and dust ingress
- Corrosion protection

6. HEAT EXCHANGER PROTECTION



- Protects edges and sharp corners
- Prevents fin damage during handling
- Reflective options for heat shielding

7. LABEL & NAMEPLATE FIXING



- Secure bonding of labels and plates
- Weather and UV resistant
- Maintains readability

8. VIBRATION DAMPING



- Bonds damping materials and pads
- Reduces vibration and noise
- Improves product life

RECOMMENDED TAPE TYPES

TAPE TYPE	FEATURES	COMMON APPLICATIONS
PE Foam Tape	Soft, compressible, good sealing, vibration absorption	Sealing, cushioning, vibration damping
Acrylic Foam Tape (VHB™)	High bonding strength, durable, temperature resistant	Mounting, bonding, panel fixing
Aluminum Foil Tape	Heat reflective, thermal conductive, moisture resistant	Pipe insulation sealing, heat shielding
Cloth (GARFAC) Tape	Strong, conformable, wire harness bundling	Wire harness, cable bundling
PVC Insulation Tape	Electrical insulation, flame retardant	Electrical insulation, color coding
PET Double Sided Tape	Thin, high adhesion, clear finish	Display, nameplate, emblem mounting
Butyl Tape	Excellent sealing, non hardening	Sealing, waterproofing, gap filling

TYPICAL TAPE PROPERTIES

PROPERTY	TYPICAL VALUE
Operating Temperature	-40°C to +120°C (varies by tape type)
Adhesion Strength	High to Very High
Thickness Range	0.05 mm - 3.0 mm
Elongation	10% - 300% (varies)
Peel Adhesion	High
Weather Resistance	Excellent (UV, Moisture, Aging)
Flame Retardant	Available (UL 94 V-0 and others)

APPLICATION SURFACE



TAPE CONSTRUCTION EXAMPLES



WHY USE ADHESIVE TAPE?

- ✓ Eliminates screws, rivets and welding
- ✓ Seals against air, water, dust and noise
- ✓ Reduces weight and material usage
- ✓ Improves production speed and efficiency
- ✓ Provides clean, neat and professional finish
- ✓ Supports automation and modern manufacturing
- ✓ Enhances product reliability and lifetime



USED IN VARIOUS AIR CONDITIONER TYPES



INDUSTRY STANDARDS & COMPLIANCE



OUR VALUE TO YOU

- ① Wide range of high performance tape solutions
- ② Technical support for optimal tape selection
- ③ Consistent quality and reliable supply
- ④ Customized solutions to meet your needs

THE RIGHT TAPE SOLUTION
FOR BETTER PERFORMANCE
AND LONGER LIFE.



ADHESIVE TAPE APPLICATIONS FOR AUTOMOTIVE INDUSTRY

High Performance Bonding • Vibration Control • Sealing • Noise Reduction • Lightweight Solution

ABOUT ADHESIVE TAPE

Adhesive tapes are high performance bonding solutions, widely used in automotive manufacturing to provide strong adhesion, sealing, cushioning and protection. They help improve vehicle quality, durability and design flexibility while supporting lightweight and NVH performance.



KEY BENEFITS

-  **Strong & Reliable Adhesion**
Bonds various materials securely
-  **Noise & Vibration Reduction**
Improves NVH performance
-  **Sealing & Weather Resistance**
Protects against dust, water and heat
-  **Lightweight Design**
Supports thinner and lighter parts
-  **Clean & Aesthetic Finish**
Enables invisible and neat assembly
-  **Process Efficiency**
Easy to apply, shortens assembly time

AUTOMOTIVE APPLICATIONS

1. EXTERIOR TRIM & EMBLEM FIXING



- Strong bonding for emblems and trims
- Weather & UV resistant
- Long lasting adhesion

2. INTERIOR TRIM & CONSOLE



- Bonds interior parts securely
- Reduces squeak & rattle (S&R)
- Improves cabin comfort

3. WIRING HARNESS BUNDLING



- Bundles and protects wire harness
- Abrasion resistant
- Heat resistant

4. FOAM & DAMPING MATERIAL FIXING



- Bonds foam, felt and insulators
- Enhances NVH performance
- Long lasting bond

5. BATTERY PACK & E/E COMPONENTS



- Fixes and insulates components
- Heat & chemical resistant
- Provides electrical insulation

6. LIGHTING ASSEMBLY



- Bonds lens and housings
- Sealing against dust and moisture
- Clear and clean appearance

7. DOOR & WINDOW SEALING



- Seals gaps and prevents water leakage
- Weather resistant
- Reduces wind noise

8. ROOF & SUNROOF ASSEMBLY



- Waterproof sealing
- Strong bonding on metal / plastic
- Withstands high temperature

9. NAMEPLATE & LABEL FIXING



- Secure mounting of labels & badges
- Excellent durability
- Clean and premium look

10. SEAT & INTERIOR COMPONENTS



- Bonds foam, fabric and trims
- Improves fit and appearance
- Enhances driving comfort

11. AIR DUCT & HVAC ASSEMBLY



- Seals joints and prevents air leakage
- Heat and humidity resistant
- Maintains HVAC performance

12. MIRROR & SENSOR MOUNTING



- Strong and durable bonding
- Weather & vibration resistant
- Supports ADAS sensor mounting

RECOMMENDED TAPE TYPES

TAPE TYPE	KEY FEATURES
Acrylic Foam Tape (VHB™ type)	Ultra strong bonding, durable, weather resistant
PE Foam Tape	Soft, conformable, good sealing
Cloth / Fabric Tape	Flexible, abrasion resistant
PET / Film Tape	Thin, high strength, heat resistant
Aluminum Foil Tape	Heat reflective, moisture barrier
PVC Insulation Tape	Electrical insulation, flame retardant
Double Sided Tape	General purpose bonding

TYPICAL PROPERTIES

Operating Temp.	-40°C to +120°C (varies by type)
Adhesion Strength	High to Very High
Thickness Range	0.05 – 3.0 mm
Elongation	10% – 300%
Weather Resistance	Excellent (UV / Moisture)
Flame Retardant	Available (UL 94 V-0 etc.)

WHY CHOOSE OUR ADHESIVE TAPES

- ✓ Designed for demanding automotive requirements
- ✓ Improves quality, reliability and safety
- ✓ Reduces weight and enables flexible design
- ✓ Enhances NVH and driving comfort
- ✓ Supports modern EV and ADAS applications
- ✓ Wide range of solutions for all vehicle areas

COMPLIANCE & STANDARDS



OUR VALUE TO YOU

-  Total Adhesive Tape Solutions for Automotive
-  Technical Support & Customization
-  Consistent Quality Supply
-  Long-term Partnership

STRONGER • LIGHTER • QUIETER • SAFER

Driving the Future of Mobility

PLASTIC FILMS

APPLICATIONS IN AIR CONDITIONER INDUSTRY

Lightweight | Functional Protection | Insulation | Moisture & Chemical Resistance | Process Efficiency | Recyclable Solutions

ABOUT PLASTIC FILMS

Plastic films are thin polymeric materials engineered to provide protection, insulation, barrier, decoration and functional performance in air conditioner manufacturing. They help improve energy efficiency, ensure product reliability, enhance appearance, and support automated, cost-effective production.



KEY FEATURES

-  **Moisture & Water Vapor Barrier**
Prevents corrosion and water ingress
-  **Electrical Insulation**
Provides dielectric strength and safety
-  **Temperature Resistance**
Withstands high and low temperature conditions
-  **Chemical Resistance**
Resists oils, solvents and refrigerants
-  **Lightweight & Flexible**
Easy to convert, apply and assemble
-  **Surface Protection**
Protects against scratches, dirt and damage
-  **Process Compatibility**
Suitable for die-cutting, lamination, printing
-  **Sustainable Options**
Recyclable and eco-friendly film solutions

AIR CONDITIONER APPLICATIONS

- 1. FRONT PANEL PROTECTION FILM**

 - Protects surface from scratches and dirt during handling and installation
 - Easy removal without residue
- 2. EVAPORATOR INSULATION FILM**

 - Provides insulation and prevents condensation
 - Improves cooling efficiency
- 3. DRAIN PAN LINER FILM**

 - Prevents water leakage and corrosion
 - Seals and protects drain pan surface
- 4. WIRING HARNESS TAPE FILM**

 - Insulates and protects wires
 - Flame retardant and abrasion resistant
- 5. AIR FILTER SUPPORT FILM**

 - Provides structure and support
 - Moisture resistant and durable

OUTDOOR UNIT APPLICATIONS

- 1. FIN PROTECTION FILM**

 - Protects fins during manufacturing, transport and installation
 - Easy removal without residue
- 2. COMPRESSOR WRAPPING FILM**

 - Protects compressor surface from moisture, dust and corrosion
 - Maintains cleanliness and finish
- 3. PIPE INSULATION WRAP FILM**

 - Enhances insulation performance
 - Protects insulation from UV and moisture
- 4. TOP COVER & CHASSIS FILM**

 - Protects surface from scratches and contamination
 - Maintains appearance quality

OTHER APPLICATIONS IN AIR CONDITIONER SYSTEM

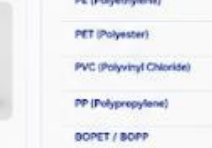
- 1. CONTROL BOX INSULATION FILM**

 - Electrical insulation and protection
 - Prevents short circuit and moisture ingress
- 2. DISPLAY / PANEL WINDOW FILM**

 - Clear visibility and protective layer
 - Scratch resistant and easy to clean
- 3. FOAM & SPONGE LAMINATION FILM**

 - Bonds foam, sponge and other materials
 - Improves durability and structure
- 4. LABEL & NAMEPLATE FILM**

 - Durable printing and long-lasting
 - Resistant to chemicals and UV
- 5. SOUND ABSORPTION FILM**

 - Enhances NVH performance
 - Adds barrier and damping effect
- 6. SEALING & GASKET FILM**

 - Provides tight sealing
 - Prevents air and water leakage

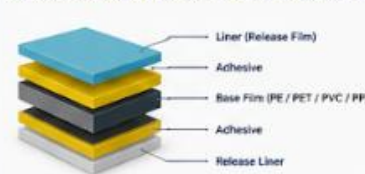
COMMON PLASTIC FILM MATERIALS

MATERIAL	FEATURES	TYPICAL APPLICATIONS
PE (Polyethylene)	Moisture resistant, flexible, chemical resistant	Insulation wrap, protective film, liner, bag
PET (Polyester)	High strength, dimensionally stable, electrical insulation	Insulation film, nameplate, label, electrical tape
PVC (Polyvinyl Chloride)	Good insulation, flame retardant, chemical resistant	Wire harness tape, insulation, shrink film
PP (Polypropylene)	Chemical resistant, lightweight, fatigue resistant	Lamination, tape, insulation film
BOPET / BOPP	High clarity, strength, barrier properties	Protective film, label, capacitor film
Aluminum Foil Laminated Film	Excellent barrier, heat reflection	Insulation, vapor barrier, heat shield

TYPICAL PROPERTIES

Thickness Range	: 10 µm – 200 µm (customizable)
Width Range	: 5 mm – 1600 mm (customizable)
Temperature Range	: -40°C to +120°C (material dependent)
Tensile Strength	: High
Elongation	: 10% – 300% (material dependent)
Surface Treatment	: Corona, Anti-static, Printing, Coating
Flame Retardant	: Available (UL 94 V-0, VTM-0, etc.)
Adhesive Options	: Acrylic, Rubber, Silicone, Hot Melt
Colors / Finish	: Clear, White, Black, Metalized, etc.

ADHESIVE TAPE & FILM CONSTRUCTION EXAMPLE



BENEFITS

- ✓ Improves product quality and reliability
- ✓ Enhances energy efficiency and insulation
- ✓ Protects components and surfaces
- ✓ Reduces noise, vibration and condensation
- ✓ Supports clean and efficient assembly processes
- ✓ Customizable solutions for various requirements
- ✓ Available in eco-friendly and recyclable options

CONVERTING & PROCESSING

- Slitting
- Die-cutting
- Lamination
- Printing
- Embossing
- Custom Converting

INDUSTRY STANDARDS & COMPLIANCE



USED IN VARIOUS AIR CONDITIONER TYPES



PLASTIC FILMS

APPLICATIONS IN AUTOMOTIVE INDUSTRY

Lightweight | Protection | Insulation | Noise Reduction | Durability | Aesthetics | Sustainable Solutions

ABOUT PLASTIC FILMS

Advanced plastic films provide multifunctional solutions for modern vehicles. They enhance performance, improve durability, reduce weight, and contribute to safety, comfort and sustainability across interior, exterior, powertrain and electrical systems.



KEY BENEFITS

-  **Weight Reduction**
Contributes to fuel efficiency and lower emissions
-  **Surface Protection**
Protects against scratches, dirt, UV and corrosion
-  **Thermal Management**
Insulation, heat reflection and barrier properties
-  **Noise, Vibration & Harshness (NVH) Reduction**
Improves cabin comfort and driving experience
-  **Electrical Insulation**
Ensures safety and reliability of electronic systems
-  **Design Flexibility**
Enables aesthetics, decoration and branding
-  **Chemical & Moisture Resistance**
Long-lasting performance in harsh environments
-  **Recyclable & Sustainable Options**
Supports eco-friendly and circular solutions

AUTOMOTIVE APPLICATIONS

1 INTERIOR SURFACE PROTECTION (Scratch & Wear Resistance Films)



- Protects high-touch surfaces from scratches and abrasion
- Keeps interior looking new for longer

2 DECORATIVE & TRIM FILMS (Printed / Textured Films)



- Enhances interior aesthetics with various textures and finishes
- Enables lightweight and cost-effective design

3 PAINT PROTECTION FILMS (PPF) (Clear Protective Films)



- Protects paint from stone chips, scratches and road debris
- Self-healing options for long-lasting clarity

4 WINDOW FILMS (Solar Control / UV Protection Films)



- Reduces heat, glare and UV exposure
- Improves cabin comfort and protects interior materials

5 HEADLAMP & LAMP PROTECTION FILMS (Clear & Tinted Films)



- Prevents yellowing, scratches and cracks
- Maintains light transmittance and appearance

6 EMBLEM & BADGE FILMS (Protective / Decorative Films)



- Protects emblems from weathering and chemicals
- Supports branding and customization

7 WIRE HARNESS TAPE FILMS (Electrical Insulation Films)



- Insulates and protects wires and cables
- Resistant to heat, abrasion, chemicals and moisture

8 BATTERY & MODULE INSULATION FILMS (Electrical Insulation Films)



- Provides electrical insulation and flame retardancy
- Enhances safety and reliability of EV systems

9 SOUND DAMPING & NVH FILMS (Vibration Damping Films)



- Reduces vibration and road noise
- Improves driving comfort and acoustic performance

10 SEALING & WEATHERPROOF FILMS (Barrier & Moisture Protection Films)



- Prevents water, dust and air leakage
- Enhances durability and cabin comfort

11 UNDERHOOD & ENGINE COMPARTMENT FILMS (Heat Shield / Protective Films)



- Protects components from heat, dirt and chemicals
- Improves durability in harsh conditions

12 TRANSPORTATION & DELIVERY PROTECTION FILMS (Temporary Protective Films)



- Protects components during manufacturing, assembly and transport
- Easy removal without residue

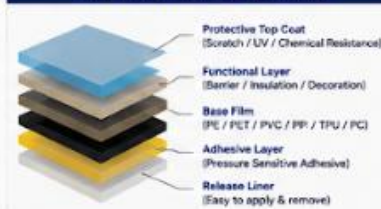
COMMON PLASTIC FILM MATERIALS

MATERIAL	KEY PROPERTIES
PE (Polyethylene)	Moisture resistant, flexible, good impact resistance
PET (Polyester)	High strength, dimensional stability, chemical resistant
PVC (Polyvinyl Chloride)	Good insulation, flame retardant, chemical resistant
PP (Polypropylene)	Lightweight, chemical resistant, good fatigue resistance
TPU (Polyurethane)	Excellent abrasion resistance, flexibility, self-healing (in some grades)
PC (Polycarbonate)	High impact resistance, optical clarity, heat resistant

TYPICAL PROPERTIES

PROPERTY	TYPICAL VALUE (EXAMPLE)
Thickness Range	10 µm - 500 µm
Tensile Strength	50 - 250 MPa (material dependent)
Elongation	50% - 300% (material dependent)
Temperature Resistance	-40°C to +120°C (varies by material)
Adhesive Type	Acrylic, Silicone, Rubber based
Surface Treatment	Corona, Plasma, Coating
Flame Retardant	UL 94 V-0 (available options)
Colors / Finish	Clear, Black, White, Printed, Textured

FILM LAYER STRUCTURE (EXAMPLE)



CONVERTING & PROCESSING

-  Slitting
-  Die-cutting
-  Lamination
-  Printing
-  Embossing
-  Heat Forming

INDUSTRY STANDARDS & COMPLIANCE







SUSTAINABLE SOLUTIONS

- ✓ Recyclable film structures
- ✓ Low VOC & eco-friendly adhesives
- ✓ Lightweight solutions for lower emissions
- ✓ Supporting circular economy



LIGHTER VEHICLES



BETTER PERFORMANCE



HIGHER DURABILITY



GREATER COMFORT



SUSTAINABLE FUTURE

PLASTIC FILMS

APPLICATIONS IN HOME APPLIANCES

Protection | Insulation | Aesthetics | Durability | Safety | Sustainable Solutions

ABOUT PLASTIC FILMS

Advanced plastic films enhance the performance, efficiency and design of home appliances. They provide protection, insulation, durability, moisture resistance and visual appeal while contributing to lightweight, energy-saving and reliable products.



KEY BENEFITS

-  **Electrical Insulation**
Ensures safety and protects electronic components
-  **Moisture & Chemical Resistance**
Protects against humidity, corrosion and chemicals
-  **Thermal Management**
Improves energy efficiency and performance
-  **Lightweight & Flexible**
Enables innovative design and easy processing
-  **Surface Protection**
Prevents scratches, dust and damage
-  **Aesthetics & Decoration**
Enhances appearance with color, texture and finish
-  **Recyclable & Sustainable Options**
Supports eco-friendly and circular solutions

HOME APPLIANCE APPLICATIONS

1 REFRIGERATOR

Insulation & Protection Films



- Inner liner protection
- Foam insulation barrier
- Moisture & vapor barrier
- Decorative surface films

2 WASHING MACHINE

Insulation & Protection Films



- Outer cabinet protection
- Vibration & noise damping
- Wiring harness insulation
- Control panel overlay

3 AIR CONDITIONER

Insulation & Functional Films



- Insulation for heat exchangers
- Moisture barrier for coils
- Air flow guide films
- Surface protection films

4 MICROWAVE OVEN

Shielding & Insulation Films



- EMI shielding films
- Insulation for high voltage parts
- Door safety & seal films
- Control panel protection

5 TELEVISION

Protective & Optical Films



- Screen protection films
- Optical enhancement films
- Diffuser & reflector films
- Backlight illumination films

6 VACUUM CLEANER

Functional & Protection Films



- Dust bag films
- Motor insulation films
- Surface protection films
- Decorative films

7 RICE COOKER

Heat Resistance Films



- Control panel overlay
- Heat resistant insulation films
- Moisture barrier films
- Decorative films

8 ELECTRIC FAN

Safety & Protection Films



- Motor insulation films
- Blade protection films
- Control panel overlay
- Surface decoration

10 WATER DISPENSER

Protection & Decorative



- Surface protection
- Insulation & safety films
- Decorative films
- Easy to clean films

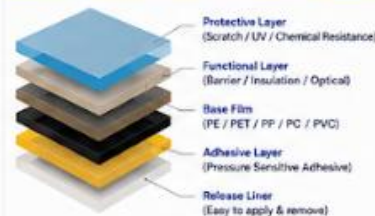
COMMON PLASTIC FILM MATERIALS

MATERIAL	KEY PROPERTIES
PE (Polyethylene)	Moisture resistant, flexible, good impact resistance
PET (Polyester)	High strength, dimensional stability, electrical insulation
PP (Polypropylene)	Lightweight, chemical resistant, good fatigue resistance
PVC (Polyvinyl Chloride)	Good insulation, flame retardant, chemical resistant
PC (Polycarbonate)	High impact resistance, heat resistant, optical clarity
Acrylic / PMMA	Excellent clarity, weather resistance, scratch resistance

TYPICAL PROPERTIES

PROPERTY	TYPICAL VALUE (EXAMPLE)
Thickness Range	5 µm - 300 µm
Tensile Strength	50 - 250 MPa (material dependent)
Elongation	50% - 300% (material dependent)
Temperature Resistance	-40°C to +120°C (varies by material)
Dielectric Strength	10 - 40 kV/mm (varies by material)
Surface Treatment	Corona, Plasma, Coating
Flame Retardant	UL 94 V-0 (available options)
Colors / Finish	Clear, White, Black, Printed, Textured

FILM LAYER STRUCTURE (EXAMPLE)



CONVERTING & PROCESSING

-  Slitting
-  Die-cutting
-  Lamination
-  Printing
-  Embossing
-  Heat Forming

INDUSTRY STANDARDS & COMPLIANCE



SUSTAINABLE SOLUTIONS

- ✓ Recyclable film structures
- ✓ Low VOC & eco-friendly adhesives
- ✓ Lightweight solutions for energy efficiency
- ✓ Supporting circular economy



WHY CHOOSE PLASTIC FILMS?

-  Enhances Product Performance
-  Improves Safety & Reliability
-  Extends Product Life
-  Supports Energy Efficiency
-  Enables Innovative Design
-  Sustainable for the Future

USED IN VARIOUS HOME APPLIANCE TYPES



SMART FILM SOLUTIONS FOR BETTER LIVING



STONE PAPER

RAW MATERIALS & APPLICATIONS

WATER RESISTANT • TEAR RESISTANT • DURABLE • SMOOTH SURFACE
TREE-FREE • VERSATILE • ECO-FRIENDLY

Stone Paper is an innovative, eco-friendly material made primarily from natural calcium carbonate (CaCO_3) powder and a non-toxic polymer binder. It is tree-free, waterproof, tear-resistant and durable, perfect for a wide range of applications.



RAW MATERIALS



1. CALCIUM CARBONATE (CaCO_3)

แร่หินปูนเป็นวัตถุดิบหลัก

- Provides bulk, brightness, stiffness and smooth surface



2. POLYMERIC BINDER

กาวน้ำที่ยึดอนุภาคแร่เข้าด้วยกัน

- Binds calcium carbonate particles together to form durable sheet



3. FUNCTIONAL ADDITIVES

สารเติมแต่งเพื่อปรับคุณสมบัติ

- Enhances performance for specific applications (e.g. strength, printability, opacity, anti-static)

KEY PROPERTIES



Water & moisture resistant



Tear resistant



Smooth printing surface



Durable



No wood pulp / Tree-free



Suitable for printing & converting



Good dimensional stability



Non-toxic & RoHS Compliant*



Recyclable & environmentally friendly

WHY CHOOSE STONE PAPER?



Sustainable & eco-friendly

Reduces deforestation and protects the environment



Waterproof & chemical resistant

Resistant to water, oil and many chemicals



Strong & long-lasting

Tear resistant and durable for multiple uses



High quality printing

Excellent printability with vibrant color reproduction



Versatile & easy to convert

Can be printed, cut, folded, stitched and sealed easily



Lower carbon footprint

Uses less energy and water in production

MAIN APPLICATIONS

1 SHOPPING BAGS  • Durable & tear resistant • Waterproof & reusable • Excellent printability	2 PACKAGING  • Boxes, pouches, sleeves • Water & grease resistant • Food contact (grade available)	3 LABELS & TAGS  • Durable labels • Waterproof & tear resistant • Ideal for industrial & retail	4 BOOKS & NOTEBOOKS  • Smooth writing & printing • Tear resistant pages • Water resistant covers	5 MAPS & OUTDOOR PRINTING  • Waterproof & durable • Ideal for outdoor use • Resistant to wet conditions	6 POSTERS & ADVERTISING  • Bright colors & sharp images • Water resistant • Long lasting outdoor use
7 FOOD PACKAGING  • Food contact grade available • Grease & moisture resistant • Safe & hygienic	8 MENUS  • Waterproof & easy to clean • Tear resistant • Perfect for restaurants	9 CARDS & CALENDARS  • Premium look & feel • Durable & long lasting • Excellent print quality	10 INDUSTRIAL LABELS  • Resistant to water, oil, chemicals & abrasion • Suitable for harsh environments	11 GIFT & LUXURY PACKAGING  • Premium appearance • Rigid & durable • Eco-friendly alternative	12 STATIONERY  • Folders, file covers, envelopes • Water & tear resistant • Ideal for office & school

PRODUCT FORMS



FOOD CONTACT GRADE AVAILABLE



SAFE FOR FOOD
PACKAGING



MEETS FOOD CONTACT
STANDARDS

CERTIFICATIONS & COMPLIANCE



RoHS
Compliant



REACH
Compliant



9001



14001



BPA
FREE



FOOD CONTACT
COMPLIANT*

STONE PAPER
DURABLE MATERIAL FOR
SUSTAINABLE & VERSATILE APPLICATIONS



PP SYNTHETIC PAPER

DURABLE • VERSATILE • SUSTAINABLE

NANYA PP Synthetic Paper is made from polypropylene (PP) resin, offering outstanding durability, water resistance, and printability for a wide range of industries.



WATER
RESISTANT



TEAR
RESISTANT



DURABLE



EXCELLENT
PRINTABILITY



ECO
FRIENDLY



RECYCLABLE



南亞塑膠
NAN YA PLASTICS



RAW MATERIALS



1. POLYPROPYLENE (PP) RESIN

- High purity PP resin
- Provides strength, durability and moisture resistance



2. MASTERBATCH

- Adds color and performance enhancements
- Ensures consistency and quality



3. ADDITIVES

- Improves mechanical properties and printability
- Enhances UV resistance, heat resistance and more

KEY PROPERTIES



Water & moisture resistant



Tear resistant



High durability



Excellent printability



Chemical resistant



No wood pulp / Tree-free



Suitable for printing & converting



Good dimensional stability



Non-toxic & RoHS Compliant*



Recyclable & environmentally friendly

APPLICATIONS



AUTOMOTIVE

Labels, manuals, barcode tags, wiring diagrams



OUTDOOR & INDUSTRIAL

Signage, banners, maps, construction documents



RETAIL & PACKAGING

Shelf talkers, price tags, packaging labels



PRINTING & PUBLISHING

Posters, calendars, brochures, advertising materials



OTHERS

Medical tags, wristbands, cards, ID tags and more



OUTDOOR DECORATION MATERIALS

DURABLE • BEAUTIFUL • SUSTAINABLE

NAN YA provides a wide range of eco-friendly outdoor decoration materials with excellent weather resistance, durability and aesthetic performance for modern living.



WEATHER
RESISTANT



DURABLE &
LONG LASTING



ECO
FRIENDLY



EASY TO INSTALL
& MAINTAIN



BEAUTIFUL
FINISH



PRODUCTS



ECO Plastic Lumber

Eco-friendly lumber made from recycled materials with excellent weather resistance and durability.



ECO Plastic Panels and Decking

Wide selection of wall panels and decking boards for exterior applications.



Plastic Piling

Strong and durable plastic piling for outdoor structures, retaining walls and waterfront solutions.



Plastic Fencing

Maintenance-free fencing with excellent UV resistance and long-lasting beauty.



Outdoor Structures

Versatile outdoor structures such as pergolas, gazebos and decorative profiles.

KEY BENEFITS



Superior weather resistance



Durable & long lasting



Resistant to moisture, mold & corrosion



Termite & insect resistant



Easy to install & low maintenance



Eco-friendly & recyclable



Stylish design & color options

APPLICATIONS



Decking

Terrace, balcony,
poolside, patio



Wall Cladding

Exterior walls,
facades, decorative
panels



Fencing & Railing

Garden fences, balcony
railings, safety barriers



Landscaping

Walkways, garden
paths, park facilities



Waterfront & Marine

Piers, docks, retaining
walls, waterfront
applications



Outdoor Structures

Pergolas, gazebos,
canopies and more



Stair & Step

Stairs, steps,
platforms



Privacy Screen

Decorative screens,
partitions, exterior
space dividers



OPTICAL FILM

ADVANCED SOLUTIONS FOR OPTICAL & ELECTRONIC APPLICATIONS

NAN YA provides high-performance optical films with excellent optical clarity, protection, and reliability to meet the demands of advanced electronic and industrial applications.



UV
CURABLE



HIGH
OPTICAL CLARITY



EXCELLENT
PROTECTION



STRONG
ADHESION



ANTI-STATIC &
CONDUCTIVE



RECYCLABLE &
ECO-FRIENDLY



PRODUCTS



UV Curable Tape

UV curable adhesive tape with high transparency, high adhesion and excellent reliability.



OMD-Used Film

Optical grade film used in optical modular devices for excellent dimensional stability and clarity.



Optical Explosion Proof Film

Protects glass from shattering and minimizes damage and injury.



Acrylic Type Protection Film and PU Type Protection Film

Surface protection films for a wide range of materials with various performance needs.



Hard-Coated Conductive Film

Hard-coated film with excellent conductivity, anti-scratch and durability.

KEY BENEFITS



High optical clarity



Excellent protection



Chemical & abrasion resistance



Dimensional stability



Excellent printability & processability



Anti-static & conductive options



Recyclable & environmentally friendly

APPLICATIONS



Display Protection

Protective films for screens, glass and touch panels.



Optical Devices

Used in camera modules, sensors and optical parts.



Automotive Electronics

Interior displays, touch panels and optical components.



Wearables

Smart watches, AR/VR devices and wearable displays.



Industrial & Others

Equipment panels, meters, instruments and more.

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NAN YA PLASTICS

TPU FILM

HIGH PERFORMANCE TPU FILM FOR NO-SEW SHOES & OUTDOOR GEAR

Nan Ya TPU Film offers excellent flexibility, durability, chemical resistance and clarity. It is engineered to meet the demanding performance requirements of no-sew footwear and outdoor gear.



PRODUCTS



Nan Ya TPU Synthetic Leather for NO SEW Shoes Materials
Specially designed TPU film for no-sew footwear, providing excellent bonding, durability and comfort.



Nan Ya TPU Synthetic Leather for Outdoor Gear
High-performance TPU film for outdoor gear with outstanding weatherability and mechanical strength.

KEY BENEFITS

- High flexibility & softness
- Excellent abrasion resistance
- Waterproof & chemical resistant
- Dimensional stability
- Lightweight & durable
- Recyclable & environmentally friendly



APPLICATIONS



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NAN YA PLASTICS

SYNTHETIC LEATHER

PREMIUM PU SYNTHETIC LEATHER FOR MULTI-PURPOSE APPLICATIONS

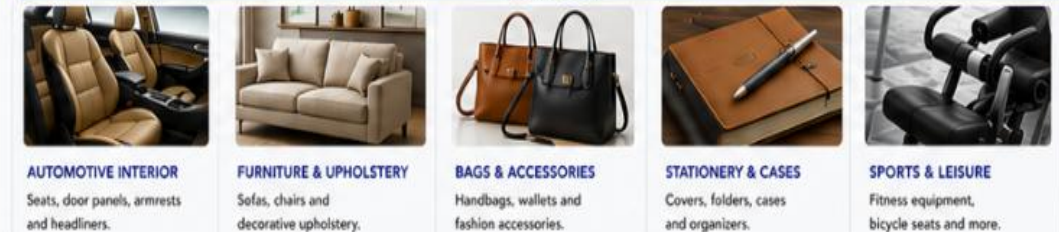
Nan Ya PU Synthetic Leather delivers the look and feel of genuine leather with superior performance, consistency and environmental sustainability.



KEY BENEFITS

- Real leather look & soft touch
- High abrasion & tear resistance
- Easy to clean & maintain
- Consistent quality & color
- Environmentally responsible

APPLICATIONS



PRODUCT



PU Synthetic Leather
High quality PU synthetic leather with excellent durability, color fastness and easy processing for a wide range of uses.

南亞塑膠
NAN YA PLASTICS

PU RESIN

HIGH QUALITY PU RESIN FOR CONSTRUCTION MATERIALS

Nan Ya PU Resin offers excellent mechanical properties, adhesion, and weather resistance, providing reliable solutions for high-performance construction materials.

PRODUCT

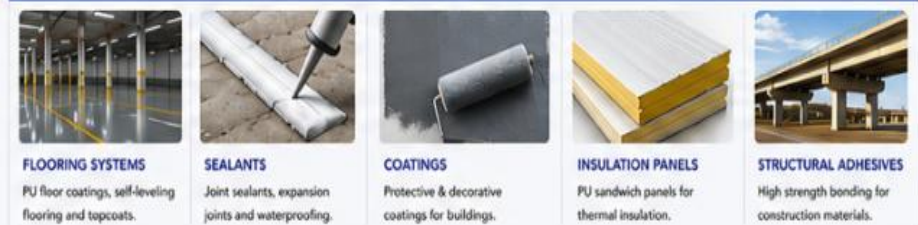


NAN YA PU CONSTRUCTION MATERIALS
High-performance PU resin system for coatings, sealants, adhesives and other construction applications.

KEY BENEFITS

- High adhesion to various substrates
- Excellent weather & UV resistance
- Good flexibility & toughness
- Chemical & water resistance
- Enhances durability of end products
- Long service life

APPLICATIONS





PLASTIC FILMS

HIGH QUALITY. VERSATILE. RELIABLE.
SOLUTIONS FOR EVERY PACKAGING NEED.

Nan Ya Plastics offers a wide range of high-performance plastic films designed to meet diverse packaging requirements with excellent quality and consistency.



HIGH CLARITY



STRONG & DURABLE



EXCELLENT SEALING



MOISTURE RESISTANT



FOOD CONTACT SAFE



RECYCLABLE & ECO-FRIENDLY



	PRODUCT	KEY BENEFITS	APPLICATIONS				
01 PVC CLING FILM		PVC Cling Film High clarity and excellent cling properties for superior food wrapping and product protection.	 Excellent cling & adhesion	 High clarity & gloss	 Good puncture & tear resistance	 Moisture & dust protection	
			 Food contact safe	 Easy to use & unwind	 FOOD WRAPPING Fresh fruits, vegetables, meat and prepared foods.	 HOUSEHOLD USE Kitchen, refrigerator and storage protection.	 SUPERMARKET PACKAGING Overwrap for trays, containers and products.
02 PE STRETCH FILM		PE Stretch Film High stretchability film for secure load stability and reliable pallet protection.	 High stretchability & recovery	 Excellent load holding force	 Puncture & tear resistance	 Water & dust resistant	
			 Cost-effective solution	 Recyclable & eco-friendly	 PALLET WRAPPING Secure unit loads for transportation and storage.	 FURNITURE PROTECTION Protects furniture and appliances during moving.	 WAREHOUSE & LOGISTICS Improve stability and safety in handling and stacking.
03 BOPP FILM		BOPP Film High strength and excellent printability film for premium packaging solutions.	 High tensile strength	 Excellent clarity & gloss	 Good dimensional stability	 Moisture & chemical resistant	
			 Excellent printability	 Recyclable & eco-friendly	 FLEXIBLE PACKAGING For snacks, cookies, confectionery and dry food packaging.	 LABEL & PRINTING High quality printing for labels, tapes and graphics.	 GIFT & FLOWER WRAPPING Beautiful appearance with crystal clear finish.



ENGINEERING AND PVC COMPOUNDS

ADVANCED MATERIAL SOLUTIONS FOR HIGH-PERFORMANCE APPLICATIONS

Nan Ya Plastics offers a comprehensive range of engineering plastics and PVC compounds for industrial and medical applications. Our materials deliver excellent performance, reliability, and safety to meet diverse customer needs.



PRODUCTS		KEY BENEFITS	APPLICATIONS			
01	 Engineering plastics PBT, PA6, PP, PET, PC, PA66, HTN, PPE	✓ High strength, stiffness & dimensional stability ✓ Excellent heat resistance & chemical resistance				
02	 Hemodialysis Blood Lines	✓ Excellent biocompatibility & blood compatibility ✓ Smooth surface & kink resistance				
03	 Medical Compounds for Infusion	✓ High clarity, non-toxic & DEHP-free options ✓ Excellent flow & consistent quality				
04	 Medical Compounds for Respiratory	✓ Soft & flexible, biocompatible ✓ Good transparency & patient comfort				
05	 Rigid PVC Compounds for Extrusion	✓ Excellent chemical resistance & durability ✓ High rigidity & easy to process				
06	 Medical Compounds for Drainage	✓ Flexible, kink-resistant & biocompatible ✓ Smooth inner surface				
07	 Medical Compounds for Feeding	✓ Non-toxic, safe & odorless ✓ Soft, flexible & easy to use				
08	 Rigid PVC Compounds for Injection	✓ High rigidity, dimensional accuracy ✓ Excellent flow & fast cycle				
09	 Flexible PVC Compounds for Injection	✓ Flexible, transparent & biocompatible ✓ Excellent sealing & easy processing				
10	 Flexible PVC Compounds for Extrusion	✓ Flexible, durable & weather resistant ✓ Excellent processability & uniformity				
11	 CPVC Compounds	✓ High temperature resistance & corrosion resistance ✓ Safe for hot & cold water applications				
	NSF Grade PVC Compounds for Drinking Water System Components	✓ NSF/ANSI 61 certified ✓ Safe, non-toxic & lead-free				



SPECIALTY PVC & RELATED PRODUCTS

HIGH QUALITY MATERIALS FOR INDUSTRIAL & INFRASTRUCTURE SOLUTIONS

Nan Ya Plastics offers a wide range of specialty PVC products including resins, pipes & fittings, and rigid sheets to meet diverse industry needs with excellent quality, durability and performance.



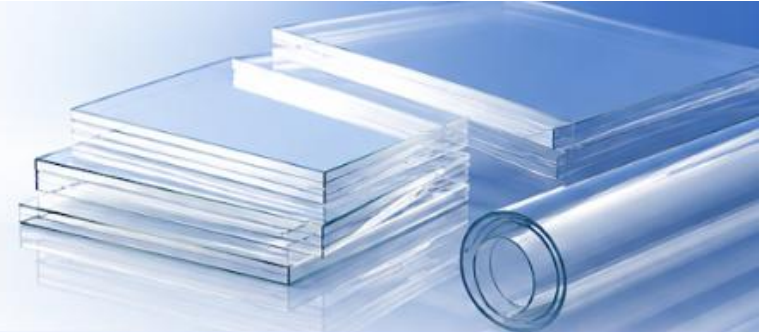
	PRODUCT	KEY BENEFITS	APPLICATIONS
01 UNSATURATED POLYESTER	 UP RESIN High quality unsaturated polyester resin with excellent mechanical properties, chemical resistance and processing performance.	- High strength & good toughness - Excellent chemical resistance - Good heat resistance - Low shrinkage & low odor - Easy processing & fast curing - Consistent quality & performance	 FRP BOATS & MARINE Boat hulls, decks, and marine parts.  CHEMICAL TANKS Corrosion resistant tanks, containers and vessels.  SANITARY WARE Bathtubs, wash basins and shower bases.  ROOF SHEETS Translucent roofing and wall panels.  FRP PRODUCTS Gratings, covers, and structural parts.
02 PIPE & FITTING	 PIPES & FITTINGS High performance PVC pipes and fittings for water supply, drainage and industrial piping systems.	- High impact strength - Corrosion & chemical resistant - Smooth inner surface - Leak-proof & easy installation - Lightweight & durable - Long service life	 WATER SUPPLY SYSTEM Potable water distribution and transport.  DRAINAGE SYSTEM Sewerage, waste water and storm water.  INDUSTRIAL PIPING Chemical plants and industrial fluid systems.  AGRICULTURE Irrigation and farm water systems.  ELECTRICAL CONDUIT Cable protection and wiring systems.
03 RIGID SHEET	 PRODUCTS - PVC Transparent Plates - PVC Opaque Plates - PVC Foamed Plate - Integral Skin-foam Sheets (Celuka)	KEY BENEFITS - Excellent surface quality - High rigidity & dimensional stability - Chemical & corrosion resistant - Easy to fabricate & thermoform - Lightweight (Foamed/Celuka) - Recyclable & environmentally friendly	 SIGNAGE & DISPLAY Sign boards, light boxes and advertising.  CONSTRUCTION Partitions, wall panels and protective sheets.  INDUSTRIAL USE Machine guards, covers and chemical tanks.  TRANSPORTATION Interior panels, partitions and protective liners.  FURNITURE & INTERIOR Cabinet panels, doors and decorative sheets.



A-PET SHEET / RIGID FILM

PREMIUM A-PET SHEETS FOR PACKAGING, PRINTING & INDUSTRIAL APPLICATIONS

Nan Ya Plastics offers high quality A-PET sheets / rigid films with excellent clarity, strength and processability for a wide range of packaging and industrial uses.



	PRODUCTS	KEY BENEFITS	APPLICATIONS			
01	 A-PET Transparent Sheets High clarity and excellent optical properties for various industrial and packaging applications.	- High transparency & gloss - Excellent impact strength - Good dimensional stability - Chemical & moisture resistant - Easy to thermoform & fabricate	 DISPLAY & SIGNAGE Display stands, sign holders, name plates.	 STATIONERY & OFFICE File folders, document covers, dividers.	 ELECTRONICS Protective covers, trays, insulators.	 INDUSTRIAL PARTS Machine guards, protective panels, inspection windows.
02	 A-PET Sheet For Vacuum Forming And Food Packaging Food grade A-PET sheet suitable for vacuum forming and food packaging.	- Food contact safe - Excellent forming performance - Good barrier to moisture & gas - High clarity for product visibility - Recyclable & safe for environment	 FRESH FOOD PACKAGING Fruits, vegetables, salads, sandwiches.	 MEAT & SEAFOOD TRAYS Hygienic packaging for meat, poultry and seafood.	 BAKERY & CONFECTIONERY Cakes, cookies, pastries, and baked goods.	 READY MEAL PACKAGING Microwaveable meal trays and take-away food.
03	 A-PET Sheet For Off-set-printing Special surface treatment for excellent ink adhesion and printing performance.	- Excellent printability - Superior ink adhesion - High surface smoothness - Good dimensional stability - Suitable for die-cutting & folding	 FOLDING BOXES Cosmetic boxes, gift boxes, pharmaceutical boxes.	 LABELS & TAGS Product labels, tags, and promotional cards.	 BLISTER CARDS Battery cards, stationery, toys and hardware.	 PRINTED INSERTS Book covers, in-mold inserts, and promotional materials.
04	 A-PET Sheet For High Frequency Heat Sealing Optimized for high frequency heat sealing with strong seal strength and clarity.	- Excellent high frequency sealing - Strong & consistent seal strength - Good heat resistance - Low deformation - High clarity & smooth surface	 BLISTER PACKAGING Consumer goods, hardware, tools and accessories.	 ELECTRONIC PACKAGING Cables, chargers, earphones, and electronic accessories.	 MEDICAL PACKAGING Medical devices, instruments, and healthcare products.	 SEALED PACKAGING Stationery, cosmetics, daily and retail products.



INTERIOR DECORATION MATERIALS

BEAUTY. FUNCTIONALITY. DURABILITY.
COMPLETE SOLUTIONS FOR MODERN INTERIORS.

Nan Ya Plastics offers a comprehensive range of interior decoration materials with excellent quality, elegant designs and outstanding performance for residential, commercial and public spaces.



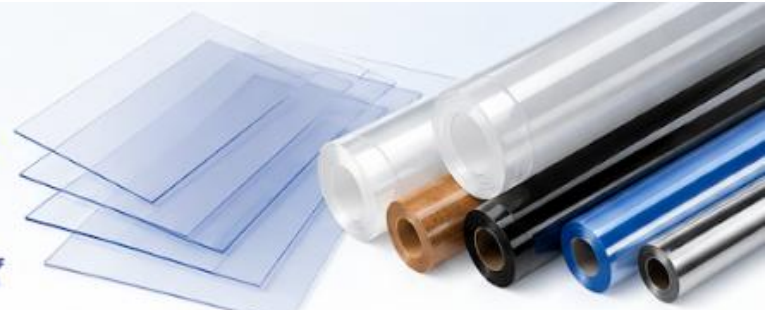
PRODUCTS		KEY BENEFITS	APPLICATIONS			
01	 PVC Ceiling Boards Lightweight ceiling boards with smooth surface and elegant designs.	- Waterproof & moisture resistant - Termite & mold resistant - Lightweight & easy to install - Low maintenance & easy to clean - Various patterns and designs	 Residential ceilings Living rooms, bedrooms, kitchens, bathrooms.	 Commercial buildings Offices, retail stores, restaurants.	 Public facilities Hospitals, schools, airports.	 Wet areas Bathrooms, balconies, laundry areas.
02	 PVC Tiles Durable and decorative PVC tiles with a variety of colors, patterns and textures.	- Water & stain resistant - High durability & wear resistance - Easy to install & maintain - Comfortable & sound absorbing - Wide range of colors & designs	 Residential flooring Living rooms, bedrooms, kitchens.	 Commercial spaces Offices, shops, showrooms.	 Public areas Hospitals, schools, hotels.	 Wet & utility areas Bathrooms, kitchens, laundry rooms.
03	 PVC Wall Panel Decorative wall panels with smooth finish for modern and elegant interiors.	- Waterproof & moisture resistant - Impact & scratch resistant - Easy to install & clean - Termite & mold resistant - Stylish & modern appearance	 Interior wall decoration Living rooms, bedrooms, feature walls.	 Commercial interiors Offices, retail stores, restaurants.	 Bathrooms & kitchens Wall cladding, splashback protection.	 Renovation projects Quick installation, beautiful finish.
04	 Inkjet Printing Color Door High quality PVC doors with inkjet printed surface for durable and colorful designs.	- Vivid colors & realistic patterns - Scratch & impact resistant - Waterproof & easy to clean - Termite resistant - Long lasting & no fading	 Residential doors Bedroom, bathroom, kitchen doors.	 Commercial buildings Offices, hotels, apartments.	 Hospitals & institutions Patient rooms, functional areas.	 Custom designs Various colors & patterns to match interiors.
05	 Deluxe Vinyl Sheets Premium decorative vinyl sheets with luxury patterns and textures for interior applications.	- High durability & flexibility - Water & stain resistant - Easy to cut, install & clean - UV resistant & color stable - Wide variety of luxury designs	 Furniture surfaces Cabinets, wardrobes, table tops.	 Wall & ceiling finishes Interior decoration and coverings.	 Retail & hospitality Hotels, restaurants, shopping malls.	 Renovation & DIY Quick & cost effective makeover.
06	 ECO Celuka Board Lightweight foamed PVC board with excellent printing and fabrication performance.	- Lightweight yet rigid - Waterproof & chemical resistant - Excellent printability - Termite & corrosion resistant - Eco-friendly & recyclable	 Signage & advertising Billboards, signboards, display panels.	 Furniture & cabinets Shelves, cabinets, store fixtures.	 Exhibition & display Booth, partitions, exhibition stands.	 Interior decoration Wall cladding, ceiling decoration.
07	 Fireproof Ceiling Boards Fire retardant ceiling boards with excellent fire performance and stability.	- Fire resistant & self-extinguishing - Smoke & toxic gas free - Moisture & mold resistant - High dimensional stability - Easy to install & maintain	 Commercial buildings Offices, shopping malls, conference rooms.	 Public facilities Schools, hospitals, airports.	 Industrial buildings Factories, warehouses, utility areas.	 Fire safety areas Corridors, stairways, emergency exits.
08	 Calcium Silicate Boards & Decoration Boards High performance boards for fire resistance, strength and decorative applications.	- Excellent fire & heat resistance - High strength & durability - Moisture & mold resistant - Sound & heat insulation - Natural look & easy to finish	 Ceilings & partitions Interior partitions, false ceilings.	 Wall cladding Interior & exterior wall applications.	 Decorative applications Feature walls, design elements.	 Wet & humid areas Bathrooms, kitchens, basements.

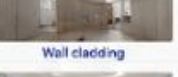


PVC SHEET

HIGH PERFORMANCE PVC SHEETS & FILMS FOR DIVERSE INDUSTRIAL APPLICATIONS

Nan Ya Plastics offers a comprehensive range of PVC sheets and films with excellent clarity, durability, surface finish and functionality to meet a wide variety of industrial, commercial and decorative needs.



PRODUCTS			KEY BENEFITS	APPLICATIONS			
01		PVC Decorative Film	✓ Excellent color and design variety ✓ Good durability & scratch resistance ✓ Easy to laminate and process				
02		PVC Decorative Film (For Metal Plate Laminates)	✓ Strong adhesion to metal substrate ✓ Corrosion & chemical resistance ✓ Excellent weatherability				
03		Fabric Backed Vinyl Wallcovering with Flame Retardant	✓ Flame retardant & safer ✓ High durability & impact resistance ✓ Beautiful textures & easy to install				
04		Double Polish Clear Film	✓ High transparency & gloss ✓ Smooth surface on both sides ✓ Good dimensional stability				
05		Super Double Polish Clear Film	✓ Superior clarity & gloss ✓ Excellent flatness & thickness control ✓ High processing performance				
06		Super Double Polish Clear Film (Heavy Gauge)	✓ Heavy gauge for extra strength ✓ Excellent impact resistance ✓ Long-term durability				
07		Anti-static and Dustproof Prevention Material	✓ Anti-static & dustproof performance ✓ Surface cleanliness & safety ✓ Suitable for sensitive environments				
08		PVC Sheeting of Wood-grain	✓ Realistic wood-grain appearance ✓ Waterproof & easy maintenance ✓ Cost-effective & easy fabrication				
09		PVC Floor Tile Film	✓ Wear resistant & slip resistant ✓ Easy cleaning & maintenance ✓ Variety of patterns & colors				
10		PVC Sheeting for Advertisement	✓ Excellent printability ✓ Weather resistant & durable ✓ Bright colors & smooth surface				
11		PVC Masking film of electronics grade	✓ Low residue & no contamination ✓ Good adhesion & easy removal ✓ Protects surfaces during processing				

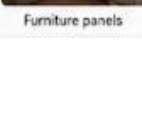
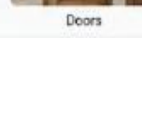


PP SYNTHETIC PAPER (CAPA)

PREMIUM SYNTHETIC PAPER SOLUTIONS FOR PRINTING & INDUSTRIAL APPLICATIONS

Nan Ya Plastics offers a comprehensive range of PP Synthetic Paper (CAPA) with excellent printability, durability, water resistance and tear resistance to meet various applications in printing and industrial markets.



PRODUCTS		KEY BENEFITS	APPLICATIONS				
01	 General Printing High quality synthetic paper for general printing applications with excellent printability and durability.	✓ Excellent printability & ink adhesion ✓ Waterproof & tear resistant ✓ High whiteness & smooth surface ✓ Dimensionally stable	 Brochures & catalogs	 Posters & banners	 Manuals & booklets	 Menus	 Maps
02	 Label Synthetic paper for labels with strong adhesion and excellent durability.	✓ Water & chemical resistant ✓ Tear resistant & durable ✓ Good adhesive compatibility ✓ High clarity for barcode & printing	 Product labels	 Barcode labels	 Bottle labels	 Logistics labels	 Chemical labels
03	 Card Paper Synthetic paper with high rigidity and durability for card applications.	✓ High stiffness & dimensional stability ✓ Excellent print quality ✓ Waterproof & tear resistant ✓ Smooth surface & good hand feel	 ID cards	 Membership cards	 Access cards	 Event passes	 Gift cards
04	 Others industry application grade (1) Synthetic paper for general industrial applications.	✓ Good mechanical strength ✓ Moisture & chemical resistant ✓ Easy to die-cut & fabricate ✓ Reliable performance	 Gaskets	 Insulation sheets	 Die-cut parts	 Protective liners	 Industrial packaging
05	 Others industry application grade (2) High performance synthetic paper for demanding industries.	✓ High tensile strength ✓ Excellent tear resistance ✓ Heat resistant ✓ Stable in harsh environment	 Electrical insulation	 Cable wrapping	 Filter media	 Composite materials	 Industrial tapes
06	 Others industry application grade (3) Special grade synthetic paper for advanced industrial uses.	✓ Excellent chemical resistance ✓ High durability & flexibility ✓ Low dust & clean surface ✓ Consistent quality	 Medical packaging	 Partition materials	 Seal liners	 Battery separator	 Electronic components
07	 PO Decorating film Printable synthetic film for decorative applications with excellent design effect.	✓ Excellent printability ✓ Vivid colors & high resolution ✓ Scratch & abrasion resistant ✓ Flexible & easy to laminate	 Furniture panels	 Interior decoration	 Wall coverings	 Doors	 Kitchen cabinets



PVC RIGID SHEET

HIGH QUALITY PVC RIGID SHEETS FOR MULTIPLE APPLICATIONS

Nan Ya Plastics offers a wide range of PVC rigid sheets with excellent physical properties, great processability and outstanding performance for various industries.



HIGH
STRENGTH



WATER & CHEMICAL
RESISTANT



SAFE FOR FOOD
CONTACT



EASY TO
PROCESS



EXCELLENT
SURFACE



EXCELLENT
PRINTABILITY



RECYCLABLE &
ENVIRONMENTALLY
FRIENDLY



WIDE RANGE OF
APPLICATIONS



	PRODUCTS	KEY BENEFITS	APPLICATIONS			
01	 Vacuum Forming and Foodstuff Pharmaceutical Packaging Excellent clarity and barrier performance, ideal for vacuum forming and safe packaging applications.	✓ Excellent transparency & gloss ✓ High impact strength ✓ Good barrier & chemical resistance ✓ Food contact safe ✓ Easy vacuum forming & thermoforming ✓ Consistent quality & performance	 Food packaging Meat, poultry, seafood, fruits, vegetables	 Pharmaceutical packaging Blister packs, medical trays, drug packaging	 Bakery & confectionery Cakes, cookies, pastries and desserts	 Dairy & fresh products Yogurt cups, deli containers, ready-to-eat meals
02	 Stationery, Offset Printing and Poker, Credit Card Used High surface flatness and excellent printability, suitable for printing, stationery and card applications.	✓ Smooth surface & excellent flatness ✓ Excellent printability & ink adhesion ✓ High rigidity & dimensional stability ✓ Wear resistance ✓ Easy to cut, punch & process ✓ Suitable for card & printing applications	 Offset printing Brochures, covers, printed sheets	 Stationery File folders, notebooks, binders, covers	 Poker Playing cards, game cards	 Credit card Bank cards, membership cards, ID cards
03	 Decoration and Ceiling, Floor Tile Lamination Excellent decorative performance and durability for interior decoration and lamination applications.	✓ Excellent surface finish & hardness ✓ Moisture & stain resistant ✓ Good dimensional stability ✓ Easy lamination & thermoforming ✓ Wide range of colors & patterns ✓ Long service life	 Ceiling panels PVC ceiling, false ceiling and wall panels	 Wall decoration Interior wall cladding, decorative panels	 Floor tile lamination PVC floor tiles, SPC / WPC lamination	 Furniture surface Cabinet doors, furniture, wardrobes



DECORATION & FUNCTION FILMS

INNOVATIVE FILM SOLUTIONS FOR A BETTER LIFE

Nan Ya Plastics offers a wide range of decoration and functional films with excellent quality, advanced technology and outstanding performance for various industrial and daily life applications.



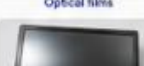
1. DECORATION FILM

PRODUCT	KEY BENEFITS	APPLICATIONS				
 Decoration LISO Film High quality LISO film with vivid colors and realistic textures, ideal for interior decoration and furniture surfaces.	✓ Vivid colors & realistic design ✓ Excellent surface finish ✓ Wear & scratch resistant ✓ Easy to clean & maintain ✓ Durable & long lasting	 Furniture surfaces	 Interior doors	 Wall panels	 Kitchen cabinets	 Store fixtures

2. WINDOW FILM

NAN YA ICE COOL WINDOW FILM / WINDOW TINT	KEY BENEFITS	APPLICATIONS				
 Ice Cool Window Film Advanced window film that reduces heat and glare, blocks UV rays and enhances comfort while saving energy.	✓ High heat rejection ✓ Blocks up to 99% UV rays ✓ Reduces glare & enhances privacy ✓ Energy saving & lower cooling cost ✓ Clear view & easy maintenance	 Residential buildings	 Commercial buildings	 Offices	 Hotels	 Automobiles

3. PET FILM

PRODUCTS	KEY BENEFITS	APPLICATIONS				
 M-PET Film Multi-purpose PET film with high clarity and excellent mechanical properties.	✓ High clarity & gloss ✓ Good dimensional stability ✓ Excellent printability	 Printing & packaging	 Electronic insulation	 Display & signage	 Stationery	 Industrial use
 Solvent-Resistant Release Film Release film with excellent solvent resistance and stable release performance.	✓ Excellent solvent resistance ✓ Stable release force ✓ High temperature resistance	 Protective liners	 Adhesive tapes	 Optical films	 Medical tapes	 Label materials
 Anti-Static Film PET film with anti-static property to prevent dust and improve handling performance.	✓ Anti-static & dust prevention ✓ Smooth handling ✓ Good surface flatness	 Electronic components	 Clean room protection	 LCD / Panel protection	 PCB protection	 Precision parts
 Stamping-Foil Film PET film designed for stamping and hot foil applications.	✓ Excellent heat resistance ✓ Good dimensional stability ✓ Superior stamping performance	 Luxury packaging	 Greeting cards	 Book covers	 Cosmetic packaging	 Gift boxes

KNEADER MACHINERIES

BY TAIWAN KNEADER MACHINERIES

POWERFUL • PRECISE • RELIABLE

Taiwan Kneader Machineries specializes in the design and manufacture of high-performance kneader and mixing machines for a wide range of industries. Engineered for superior mixing, dispersion, and kneading performance.



HIGH
PERFORMANCE



STABLE &
RELIABLE



PRECISE
CONTROL



ENERGY
EFFICIENT



EASY
MAINTENANCE



GLOBAL
SUPPORT



TAIWAN KNEADER MACHINERIES
MIXING SOLUTIONS SINCE 1978



OUR KNEADER MACHINES



RUBBER KNEADER

Ideal for natural rubber, synthetic rubber, compounding and masterbatch.



PLASTIC KNEADER

For PVC, PE, PP, masterbatch, color mixing and more.



SILICONE KNEADER

Designed for high-viscosity silicone rubber and heat-sensitive materials.



LABORATORY KNEADER

Compact and precise, perfect for R&D, formula development and testing.



DISPERSION KNEADER

Excellent dispersion for high filler loading materials and pastes.

KEY FEATURES



Superior mixing & kneading performance



Uniform dispersion & excellent product quality



Robust structure for heavy-duty operation



Precise temperature & process control



Custom design to meet customer needs



Energy saving & high efficiency



Easy operation & low maintenance



Advanced safety protection system



Reliable components & long service life



Global service & technical support

INDUSTRIES WE SERVE



RUBBER INDUSTRY

Tires, rubber sheets, hoses, belts, seals, rubber compounds



PLASTIC & POLYMER INDUSTRY

PVC, PE, PP, masterbatch, engineering plastics and more



SILICONE INDUSTRY

Silicone rubber, LSR, HCR, silicone compounds



CHEMICAL & ADHESIVE INDUSTRY

Sealants, adhesives, coatings, caulks and pastes



COSMETIC & PHARMACEUTICAL

Creams, gels, ointments and other high-viscosity products



ENERGY & NEW MATERIALS

Battery slurry, carbon materials, ceramics and advanced materials

TAIWAN JIU JIU MACHINERIES

HIGH-QUALITY MACHINERY, ADVANCED TECHNOLOGY

INNOVATIVE • EFFICIENT • RELIABLE

Taiwan Jiu Jiu Machineries specializes in the design and manufacture of high-performance kneader and mixing machines for the plastic, rubber, silicone, chemical and other industries. We deliver reliable solutions that enhance product quality, reduce costs and improve productivity.



HIGH
EFFICIENCY



RELIABLE &
DURABLE



PRECISE
CONTROL



ENERGY
SAVING



EASY
MAINTENANCE



GLOBAL
STANDARD



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Battery slurry, carbon materials, ceramics and advanced materials



Boost
Productivity



Reduce
Cost



Consistent
Quality



Environmentally
Friendly



Skilled Team with
Full Support

*Thank
You!*