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BEST FILM >>
CHOICE

ABOUT

► Company profile

Established 2015, Yantai Leo Economics & Trade co.,ltd (Leo New material) is a manufacturer and trader specialized in the research, development and production of TPU film. Leo New Material branch office is located in Yantai industrial park, and workshops are located in the yangtze river delta and Pearl River Delta. It is closed to Shanghai port and Shenzhen port with convenient transportation access. All of our products comply with international quality standards and are greatly appreciated in a variety of different markets throughout the world.

Leo New material a large private enterprise in Yantai. Over the years, we focus on the TPU FILM industry, such as waterproof and breathable TPU film, TPU Film for shoes, medical, and sports, etc. The department of innovative research and development, design, processing, sales and after selling services are committed to provide good service for all customers.

If you are interested in any of our products or would like to discuss a custom order, please feel free to contact us. We are looking forward to forming successful business relationships with new clients around the world in the near future.



MAIN PRODUCT

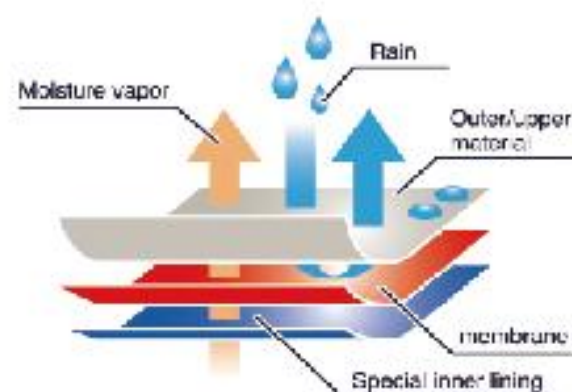
- **WATERPROOF & BREATHABLE TPU FILM**
- **TPU FILM**
- **HOT MELT ADHESIVE FILM**
- **PAINT PROTECTION FILM (PPF)**
- **TPEE FILM**
- **PU FILM**
- **PEEK FILM / PEI FILM / PSU FILM**
- **TPU SHEET**
- **PTFE FILM / PFA FILM / ETFE FILM**
- **FEP FILM / PVDF FILM**
- **PET FILM / PETG FILM**
- **NON-WOVEN**
- **TERMOPLASTIC POLYURETHANE ELASTOMER (TPU)**
- **POLYURETHANE REACTIVE (PUR)**
- **HOT MELT ADHESIVE POWDER**

WATERPROOF & BREATHABLE TPU FILM

Low Breathable Waterproof TPU FILM

Medium Breathable Waterproof TPU FILM

High Breathable Waterproof TPU FILM



BRAND NAME	LEO TPU FILM
MATERIALS	100% THERMOPLASTIC POLYURETHANE
PRODUCT NAME	BREATHABLE AND WATERPROOF TPU FILM
THICKNESS RANGE	0.01mm-0.05mm
WIDTH RANGE	0.1-3.2 Meter
WATER VAPOR TRANSMISSION (g/m ² *24h)	Refer to TDS
HYDRAULIC PRESSURE(PA)	10000+ (Refer to TDS)
SURFACE / COLOR	MATTE, GLOSSY / TRANSPARENCY, BLACK, WHITE
FUNCTION	HOME TEXTILE, BED SHEET, MEDICAL, CLOTHING
APPLICATION	LAMINATED WITH FABRIC/ TEXTILE / GARMENTS
HARDNESS	85-90 SHORE A
MELTING POINT	140-150°C
WORKING PROCESS	LAMINATION MACHINE
SUPPLY TYPE	MAKE TO ORDER

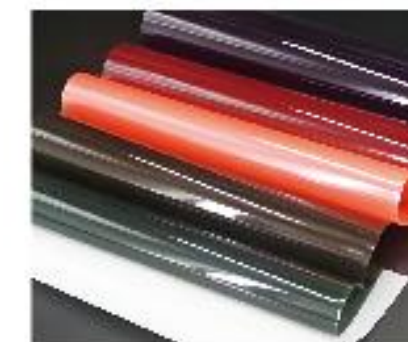
TPU FILM

(Polyether-based TPU film, Raincoat, flame resistant film, blood bags, medical application)



Advantages of TPU Film

- >1.Highly elastic, wear-resistant
- >2.Safe and durable even in severe environment
- >3.Good hydrolysis resistance and weather fastness
- >4.Smoothly rounded edge keep your skin from irritation
- >5.No losing elasticity in cold or hot environment
- >6.Environment friendly



BRAND NAME	LEO TPU FILM
MATERIALS	100% THERMOPLASTIC POLYURETHANE
PRODUCT NAME	POLYETHER-BASED TPU FILM
THICKNESS RANGE	0.02mm-3.0mm
WIDTH RANGE	0.1-1.6 Meter
SURFACE / COLOR	MATTE, GLOSSY / TRANSPARENCY, COLORFUL
FUNCTION	RAINCOAT/BOAT/MEDICAL
APPLICATION	OUTDOOR/ CLOTHING/ /FASHION/BLOOD BAG
HARDNESS	65-90 SHORE A
MELTING POINT	140-150°C
SUPPLY TYPE	MAKE TO ORDER

HOT MELT ADHESIVE FILM (TPU, EVA, PO, PA, PES)

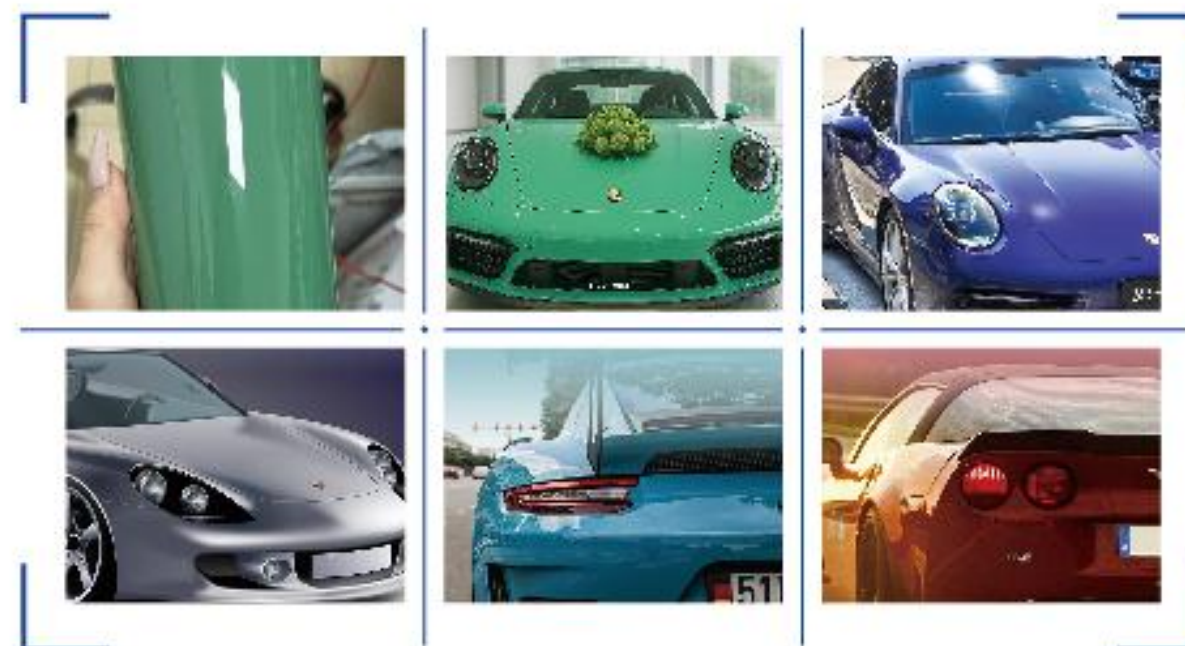
Application

Widely used in assault jacket waterproof zipper, ski cloth seamless pocket, door, sneaker mesh press glue, seamless underwear, TPU fit, leather fabric composite, seamless mobile phone case, synthetic board, metal film composite, conductive cloth, reflective materials, automotive interior, IC card packaging, PVC composite and other industries



Soften point (°C)	85-105	95-105	65-85	95-115	95-115	115-125
Melt index (g/10min@150°C)	15-25	6-12	15-25	10-20	8-15	2-8
Viscosity (Pa.s@160°C)	300	350	300	320	350	400
Hot pressure temperature (°C)	125-150	135-150	105-125	125-145	135-155	145-160
Hot press time (S)	10-20	10-20	10-20	10-20	10-20	10-20
Hot pressure pressure (kg/cm2)	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5
Water-resistant washing	good	good	Usual	good	good	best
Resistant to dry cleaning	good	good	good	good	good	best

PAINT PROTECTION FILM (PPF)



BRAND NAME	BLEO PAINT PROTECT FILM
MATERIALS	100% THERMOPLASTIC POLYURETHANE
PRODUCT NAME	HIGH GLOSSY TRANSPARENT PAINT PROTECT FILM
THICKNESS RANGE	6.5-9.5MIL
WIDTH RANGE	1.52 Meters (5 feet) * 15M (LENGTH) / ROLL
SURFACE / COLOR	HIGH GLOSSY TRANSPARENT
FUNCTION	Car Wrap Film / Self Healing Anti-yellowing / Stretchable Anti Scratch
APPLICATION	Methodical protection of the automotive clearcoat layer of paint from direct exposure to stone chips, scratches and other forms of moderate abrasion with meticulous artisan application of hydrophobic, polyurethane film originally developed for the military to protect helicopter blades from shrapnel.
High Temperature Resistance	-50°C-140°C
Warranty Period	5 YEARS
Warranty Content	Cracks, Degumming, Yellowing, Peeling, Bubbles

TPEE FILM

TPEE film is a non-porous, hydrophilic film made from thermoplastic polyester elastomer (TPEE). It has many desirable properties, including: Waterproof and breathable

TPEE film can block liquids while still allowing air to circulate. This makes it a good choice for products that need to be waterproof but still breathable, like surgical gowns and jackets.



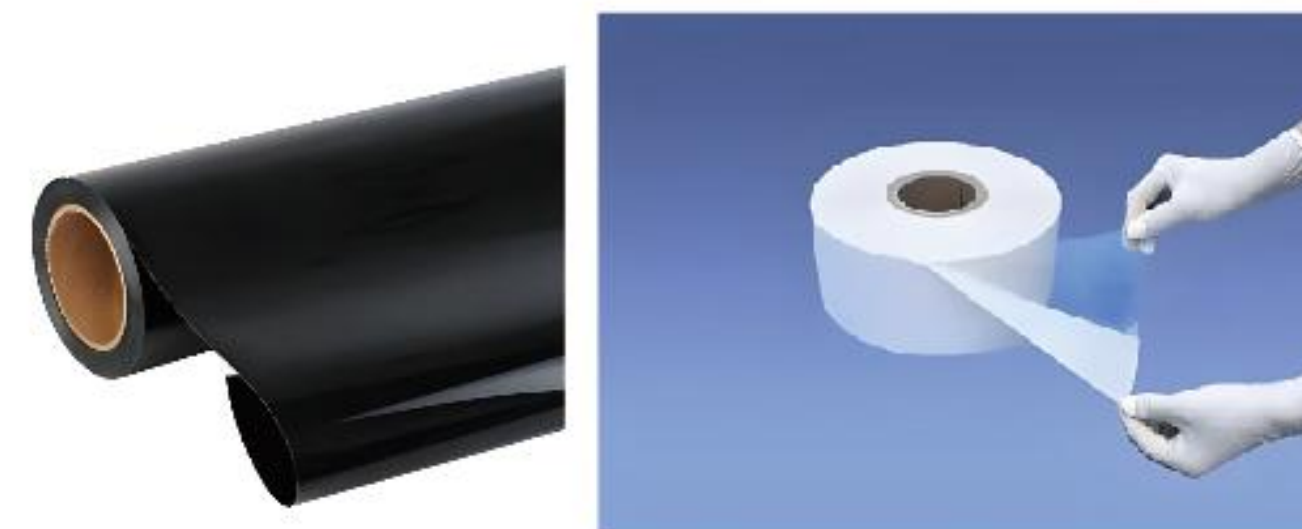
APPLICATION:

Packaging/Belts/Clothing core materials/Medical equipment

BRAND NAME	LEO TPEE FILM
MATERIALS	100% THERMOPLASTIC POLYURETHANE ELASTOMER
PRODUCT NAME	BREATHABLE AND WATERPROOF TPEE FILM
THICKNESS RANGE	0.01mm-0.05mm
WIDTH RANGE	0.1-3.2 Meter
SURFACE / COLOR:	MATTE, GLOSSY / TRANSPARENCY, BLACK, WHITE
WATER VAPOR TRANSMISSION (g/m ² *24h)	Refer to TDS
HYDRAULIC PRESSURE (PA)	10000+ (Refer to TDS)
APPLICATION	LAMINATED WITH FABRIC/ TEXTILE / GARMENTS
WORKING PROCESS	LAMINATION MACHINE
SUPPLY TYPE	MAKE TO ORDER / OEM

PU FILM

Polyurethane Film is consistently used in the most demanding industrial applications. Prized for its durability, Polyurethane Film is an excellent choice for applications requiring chemical/fuel resistance and abrasion/tear/puncture resistance. Our urethane industrial film products can be formulated to provide permanent anti-static properties, flame resistance, UV resistance, and mold/mildew/fungus resistance.



BRAND NAME	LEO PU FILM
MATERIALS	POLYURETHANEPRODUCT
NAME	PU FILMTHICKNESS
RANGE	15 – 30 MICRONWIDTH
RANGE	1.37-160CM
HARDNESS	90 ± 2 SHORE AMELT
POINT	180-190 °CSURFACE / COLOR:TRANSPARENT / WHITE
FUNCTION	LAMINATION FOR TEXTILE
APPLICATION	MATTRESS, CLOTHING, SHOES, MEDICAL SHEET
WATER VAPOUR TRANSMISSION	> 15000 (g/m ² ×24hrs)
WATER PRESSUE RESISTANCE	≥10000
WORK PROCESS	LAMINATION MACHINE

PEEK FILM

BRAND NAME	LEO PEEK FILM
MATERIALS	100%POLY-ETHER-ETHER-KETONE
PRODUCT NAME	LEO PEEK FILM
THICKNESS RANGE	0.006-0.1mm / 0.1-0.50mm / 0.025-0.50mm
WIDTH RANGE	≤950mm / ≤1050mm
SURFACE / COLOR	Natural / Black / Yellowish White
FUNCTION	The PEEK film has high temperature performance, good mechanical strength, radiation, hydrolysis and chemical resistance,electrical insulation, abrasion resistance, good flammability resistance,and inherently halogen-free, low moisture absorption and ease of processing.
APPLICATION	Electrical insulation, pressure sensitive tapes, printed circuit substrates, High temperature labels, washer in high speed motors,aerospace insulation, Pressure sensor membranes, acoustic speaker diaphragms

PEI FILM

BRAND NAME	LEO PEI FILM
MATERIALS	100% POLYETHER IMIDE
PRODUCT NAME	LEO PEI FILM / SPECIAL ENGINEERING PLASTIC FILM
THICKNESS RANGE	0.025-0.5mm
WIDTH RANGE	≤1050mm
SURFACE / COLOR	POLISHED MATTE, MATTE VELVET / NATURAL / BLACK
FUNCTION	INHERENT FLAME RETARDANT / LOW SMOKE DENSITY / LOW HEAT RELEASE PERFORMANCE
APPLICATION	Vibration film material on electroacoustic devices /Temperature resistance and insulation materials, membrane switch in industry (such as motor) / 3D-printed bottom plate materials / Biological mixed application film for medical treatment / High temperature vacuum packaging film / Welding resistance tape

PSU FILM

BRAND NAME	LEO PSU FILM
MATERIALS	100% POLYSULFONE
PRODUCT NAME	LEO PSU FILM
THICKNESS RANGE	0.025-0.1mm / 0.025-0.50mm
WIDTH RANGE	≤950mm / ≤1050mm
SURFACE / COLOR	Polished Matte / Matte Velvet / Natural / Black
FUNCTION	The PSU film has high temperature performance, good mechanical strength, hydrolysis and chemical resistance,electrical insulation, abrasion resistance, good flammability resistance, and inherently halogen-free, low moisture absorption and ease of processing.
APPLICATION	Hydrogen energy storage field / New energy vehicles, Electronic and electrical fields / Food container field

TPU SHEET

>ORTHODONTIC DEPARTMENT / DENTAL / TEETH COVER / MEDICAL BEAUTY



BRAND NAME	LEO TPU FILM - DENTAL COPING SHEET CLEAR TEETH ALIGNERS
MATERIALS	100% THERMOPLASTIC POLYURETHANE
PRODUCT NAME	TPU SHEETS FILM FOR TEETH COVER
THICKNESS RANGE	0.4mm / 0.5mm / 0.63mm / 0.75mm / 1mm / 1.5mm
WIDTH RANGE	120mm / 125mm
SURFACE / COLOR	TRANSPARENT / MATT
SHAPE OF SHEET	SQUARE / ROUND
APPLICATION	TEETH COVER
MODEL OF SHEET	HARD / SOFT (SHELF LIFE - 3 YEARS
HS CODE	34070010
SUPPLY TYPE	MAKE TO ORDER / OEM / ALUMINIUM FOIL BAG / CARTON PACKAGE

PTFE FILM / PFA FILM / ETFE FILM

PFA film is smooth and high-performing non-stretch film, which is formed by melt extrusion with PFA resin. It could be heat sealed, thermoformed vacuum formed, heat bonded, welded, metalized, laminated.

Grades	LOFA 0012	LOFA 0025	LOFA 0037	LOFA 0050	LOFA 0075	LOFA 0100	LOFA 0125	LOFA 0250	LOFA 0500
Grades Thickness, mil	0.5	1	1.5	2	3	4	5	10	20
Thickness, um	12.5	25	37.5	50	75	100	125	250	500
Approx. area factor, ft ² /lb	180	90	60	45	30	22.5	18	9	4.5
Approx. area factor, m ² /kg	36	18	12	9	6	4.5	3.6	1.8	0.9

We also offer single and double side treated film. Contact us for details

ETFE FILM

Specification	LOEF 0012	LOEF 0025	LOEF 0037	LOFALOE 0050	LOEF 0075	LOEF 0100	LOEF 0125	LOEF 0250	LOEF 0500
Thickness, mil	0.5	1	1.5	2	3	4	5	10	20
Thickness um	12.5	25	37.5	50	75	100	125	250	500
Area coefficient, ft ² /lb	200	100	75	50	37.5	25	20	10	5
Area coefficient, m ² /kg	40	20	15	10	7.5	5	4	2	1

We also offer films in surface treatment and matte specifications, please contact us if required.

FEP FILM

Specification	LOEF 0012	LOEF 0025	LOEF 0037	LOFALOE 0050	LOEF 0075	LOEF 0100	LOEF 0125	LOEF 0250	LOEF 0500
Thickness, mil	0.5	1	1.5	2	3	4	5	10	20
Thickness um	12.5	25	37.5	50	75	100	125	250	500
Area coefficient, ft ² /lb	180	90	60	45	30	22.5	18	9	4.5
Area coefficient, m ² /kg	36	18	12	9	6	4.5	3.6	1.8	0.9

PVDF FILM

Thickness	Width	Length
20um-60um	1000mm-1350mm	As per customer's requirement
This grade is mainly used for photovoltaic modules		

Thickness	Width	Length
750um-1mm	1500mm	As per customer's requirement
This grade is mainly used in construction field.		

PET FILM / PETG FILM

Product Introduction

Biaxially-oriented Polyester Film BOPET

Product Description

polyester film are high tensile strength, elastic modulus, impact strength and bending resistance, surface gloss and transparency, heat resistance (210 °C), good thermal stability, non-toxic and tasteless, good oxygen permeability and moisture resistance, chemical corrosion resistance, excellent optical properties and electrical insulating properties, such as high electrical strength of power frequency , small dielectric loss and big electrical resistivity etc. In addition, the surface quality of film can be further improved after special treatment, such as improving the film physical property, surface flatness, dimensional stability, surface adhesion.

Application

Printing, composite, aluminum, laser anti-counterfeiting, gold and silver cardboard, transfer stamping, reflective, household card, electrical insulation, medical packaging, mobile screen, flat panel display, electronic and electrical and so on. Production Process:



PETG FILM is Known as GPET,is a non-crystalline copolyester,possesses CHDM, It is composed of TPA,EG and CHDM by conden-sation polymerization.While,CHDM of PETG is the reason that its performance is differ from PET.PETG has no crystallization tem-perature,can easily be molding and bonding without albinism which is the major defect of PET material.

our high gloss petg sheet can be used for
High Gloss PETG Laminate Sheet,PETG Film for Interior Decoration
PETG thermoforming plastic sheet

NON-WOVEN

Application

AIR Filtration / Liquid Filtration / Oil & Gas / Industrial Filtration / Waster water Filtration / Healthcare & Medical Filtration



Filtration Non Woven

AIR Filtration / Liquid Filtration
Oil & Gas / Industrial Filtration
Waster water Filtration
Healthcare & Medical Filtration



Packaging Non Woven

PACKAGING BAG
APPEAL PACKAGING



Hygiene Non Woven

Diapers / Sanitary napkins
Tampons/ Incontinence products
Nursing pads / Toddler training pants



Medical Non Woven

SURGICAL CAPS/ COMPOSITE SHEETS
SURGICAL GOWNS / SURGICAL DRAPES
VISITING GOWNS/ ISOLATION GOWNS

Non-woven fabric production line



BRAND NAME	LEO NON WOVSNS
MATERIALS	SPUNBOND POLYPROPYLENE / NON WOVEN SMS PP
PRODUCT NAME	LEO NON WOVSNS
WEIGHT RANGE	15-150 g/m ²
WIDTH RANGE	10cm-320cm
SURFACE / COLOR	WHITE, BLUE, DARK BLUE, BLACK, PINK
PRODUCTS	SSMMS , SMMS , SSS, SS, PET, PLA
APPLICATION	SURGICAL CAPS / GOWNS / DRAPES / COMPOSITE SHEETS
HS CODE	5603929000
SUPPLY TYPE	MAKE TO ORDER / OEM

TERMOPLASTIC POLYURETHANE ELASTOMER (TPU)

● TPU for Injection (Polyester-based & Polyether-based)

Application: Phone case, Shoe soles, Automotive Part, Cutting Board, tags,
Hardness: 55shore A---72shore D

● TPU for Extrusion (Polyester-based & Polyether-based)

Application : Pneumatic Tube, Cable,
Hardness: 55shore A---58shore D

● TPU for Blowing Film / Casting Film

Application: Breathable & Waterproof TPU film / TPU film for shoes / TPU sheet
Hardness: 80shore A --- 95shore A

● TPU for Ink

Ink Transfer Printing TPU/ Screen Print TPU
Ink TPU can be solved in ketones, phenols and other solvents, has good printability for a variety of substrates, has a good adhesion fastness, the resin itself also has good physical properties, weather resistance, the usual color filler is easy to disperse and can be used as a variety of TPU ink connection material

● Solvent based adhesive TPU

Viscosity (15% in MEK,25°C): 1500-2200mPa.s
Viscosity (15% in MEK,25°C): 2200-3600mPa.s

● E-TPU

Application: For Shoes Sole Low Density
Low weight, high resilience performance, and has super physical properties.

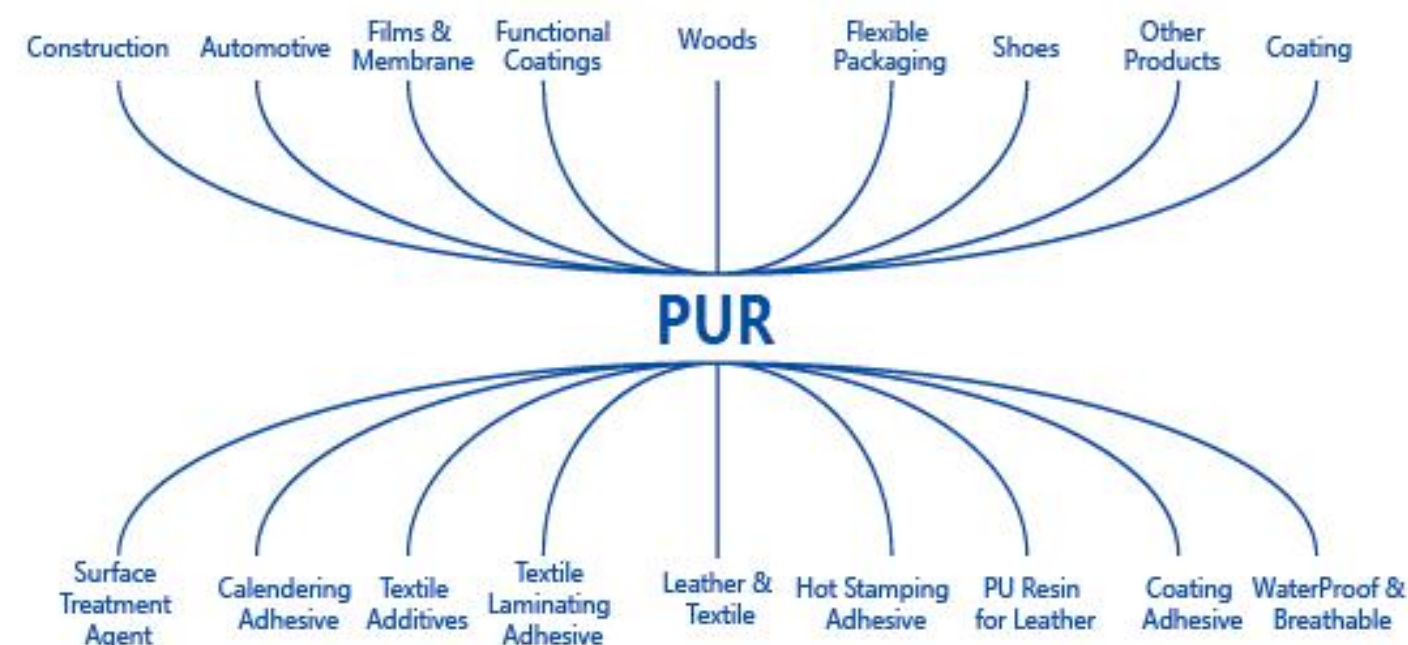
● Flame Retardant TPU



POLYURETHANE REACTIVE (PUR)

PUR adhesive stands for Polyurethane Reactive adhesive, a type of polymer that is used widely in various industrial and consumer applications due to its excellent adhesive properties. It is known for creating strong bonds and is effective across a wide range of materials including wood, plastics, metals, and rubbers.

PUR adhesive reacts with moisture in the air or substrates to cure, forming a strong, durable bond that is resistant to temperature extremes, moisture, and chemicals.



HOT MELT ADHESIVE POWDER

- Polyurethane hot melt powder – TPU
- Acetate-ethylene hot melt powder -EVA
- Co-polyamide hot melt powder – COPA
- Polyolefin hot melt powder - PO/EAA
- Co-polyester hot melt powder – PES



POLYURETHANE HOT MELT POWDER - TPU



POLYOLEFIN HOT MELT POWDER - PO/EAA



CO-POLYESTER HOT MELT POWDER - PES



CO-POLYAMIDE HOT MELT POWDER - COPA



ACETATE-ETHYLENE HOT MELT POWDER - EVA

