MARKET-ORIENTED

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广东振鑫聚材科技有限公司

企业宣传册



MARKET-ORIENTED, QUALITY-ORIENTED

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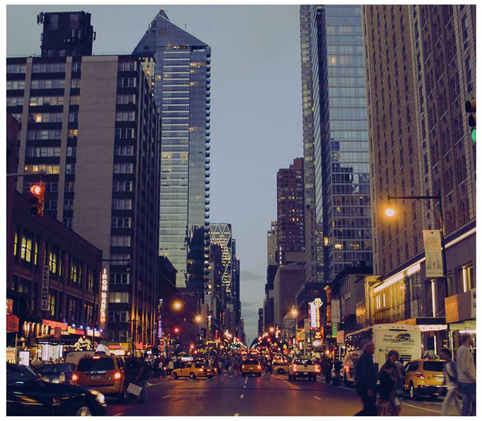
COMPANY PROFILE

ZHENXIN New Materials Technology (Guangdong) Co., Ltd. is a domestic listed company and a subsidiary of the leading chemical group Polyrock Chemical (stock code: 68869). It is a technology-innovative enterprise that will be launched in 2023. We uphold the core values and are committed to making a name for ourselves in the field of TPU materials.



The company has a passionate and creative team with rich industry experience and expertise, striving to provide customers with high-quality products and services. In terms of business, we focus on TPU films, composite fabrics and finished products, and continue to explore and optimize through advanced technology and innovative thinking to meet the diverse needs of the market.
We strictly control quality to ensure that every link meets the standards of excellence. Although we are just starting out, we are full of confidence and determination. We will continue to work hard to improve our strength, actively expand the market, and work hand in hand with partners to achieve the company's sustainable development and long-term goals.

We look forward to establishing good cooperative relations with friends from all walks of life and creating a better future together!

We have a deep understanding of the physical properties and applications of TPU films:
We can produce films suitable for lamination with fiber cloth, hot pressing, high frequency, vacuum processing and other methods. We have our own fully automatic TPU film production line with an annual production capacity of 3,000 tons. We can provide customers with polyester and polyether with different hardnesses such as 80A, 85A, 90A, 95A, etc., and can customize TPU films with thickness of 0.012-5.0mm, width of 20mm-1650mm, and various colors and textures.

We can produce single-sided and double-sided TPU films for fabrics such as 40D, 70D, 210D, 420D, 840D, 2000D, 4500D, etc. We can customize or develop TPU composite fabrics of different thicknesses, colors, textures, and widths according to customer needs, and provide polyester and polyether according to the application scenario.
TPU films and TPU composite fabrics can be customized for customers according to samples or drawings.

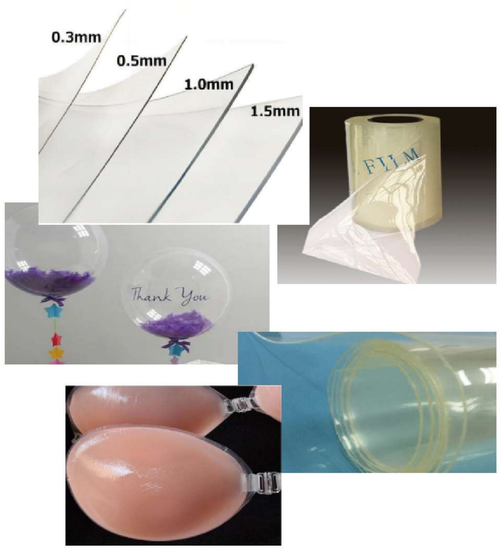
TPU THIN FILM

TPU film is a functional film with high strength, good toughness, cold resistance, oil resistance, aging resistance, weather resistance, environmental protection, non-toxicity, decomposability and other characteristics. It also has many excellent functions such as high waterproof and breathable, windproof, cold-proof, antibacterial, warm, anti-ultraviolet and energy release, and is widely used in various fields. There are different hardnesses such as 80A, 85A, 90A, 95A, and 0.01-5mm thickness optional.

Mainly applicable to:

1. Fabrics and lining materials for ready-made clothing such as snow suits, raincoats, windbreakers, cold-proof jackets, field uniforms, diapers, physiological pants, etc.;
2. Fabrics and lining materials for footwear such as sports shoes, sports shoe air cushions, hiking shoes, snow caps, golf shoes, and skates;
3. Fabrics and lining materials for medical surgical gowns, silicone gel TPU films, protective clothing, caps, shoes, hospital mattresses, bandages, plasma bags, condoms, surgical bandages, masks, etc.;
4. Fabrics and lining materials for defense supplies such as field tents, field water bags, life jackets, inflatable boats, etc.;
5. Fabrics and lining materials for other electronic optical poles, automotive interior leather, translucent leather, mobile phone buttons, plastic toys, bed sheets, tablecloths, shower curtains, furniture fabrics, aprons, pianos, computer keyboards, laminations, etc.





TPU Transparent Film

TPU transparent film is a versatile substrate extruded from polyester or polyether, a high-performance material that has the durability of rubber while retaining the physical flexibility of thermoplastics. It has excellent elasticity, transparency, low temperature performance and resistance to oil, grease and abrasion.

TPU Matte Film

TPU film has high air and moisture permeability and can be blended with various fabrics to make high-quality clothing, enhancing its value.









Common specifications and spot delivery within 3 days, non-mass production of colored films or TPU film products that our company has not made require coloring fees and/or mold fees; those that are not in stock require a minimum order quantity;

TPU Hot Melt Adhesive Film

TPU hot melt adhesive film series: films of different materials can be melted in different ways, which will not pollute the production and processing environment and create an environmentally friendly and comfortable working environment for employees.

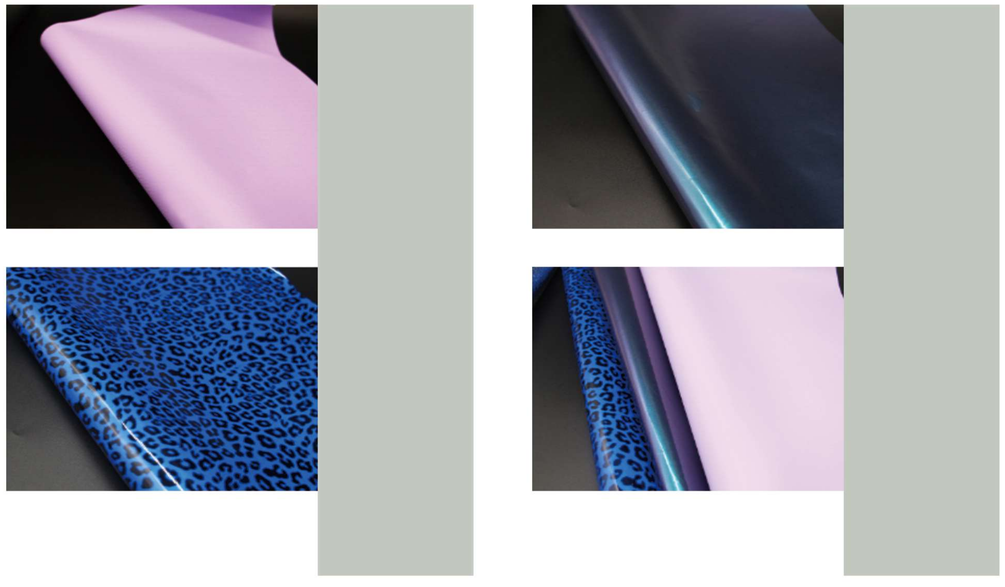
Thickness range: 0.02mm-0.3mm;
Hardness range: 60-98 Share A;
Width range: 500mm-1500mm (according to customer requirements);
Film color: according to customer requirements;

- The film does not contain plasticizer, and will not cause migration or powder seepage problems;
- The product specifications are complete, suitable for high-frequency welding, ultrasonic fusing, sewing, mold hot pressing and other processing methods, and the surface can be processed by printing, embossing, electroplating, flocking and other processes; providing customers with more choices;
- It is recommended to use TPU ink for printing, and the surface of the TPU film needs to be pre-treated;
- It is wear-resistant, tear-resistant, hydrolysis-resistant, high and low temperature-resistant, yellowing-resistant, mildew-proof and antibacterial.

TPU hot melt adhesive film is mainly a layer of TPU hot melt adhesive on the surface of TPU film or PET film, which is used for various fabrics and plastics. Mainly used for shoe materials, clothing, waterproof strips, waterproof TPU hot melt adhesive film zippers, trademarks, computer woven labels, embroidery, etc.



TPU High And Low Temperature Film



TPU Film For Shoe Materials







Waterproof Strip Film

Waterproof strips (also known as pure TPU adhesive strips) have strong adhesion and durable waterproof properties, and have strong adaptability. The heat-sealed adhesive series can achieve the most solid and reliable connection with different materials and provide durable waterproof seals. This series of products is specially used for waterproofing the seams of coated (filmed) fabric products such as raincoats, windbreakers and snow jackets, ski suits, waterproof cold-proof clothing, down jackets, diving suits, fishing pants, sailing suits, gloves, tents, military waterproof covers, waterproof bags, waterproof shoe covers, ski boots, light car covers, boat covers, etc. It is the preferred product for waterproof and rainproof product factories, clothing factories, and shoe factories.



Usements:

Windbreakers/raincoats, tents, waterproof shoes, waterproof caps and various water and underwater supplies.

Specifications:

Available in any size with a width of more than 10mm

Thickness:

0.03mm-0.25mm

Advantages:

Wide range of use; Long service life; Easy processing; Strong bonding; Some products are resistant to water washing and dry cleaning.



TPU Waterproof Film For Zipper







TPU Composite Fabric

TPU composite fabric is a composite material formed by compounding TPU film on various fabrics, combining the characteristics of the two to obtain a new type of fabric. Thus improving the texture of the fabric, the composite fabric has excellent special functions such as waterproof and breathable, radiation resistance, washing resistance, wear resistance, good cold resistance, lightness, waterproof, good air tightness, environmental protection and non-toxicity.

There are two ways to make TPU composite fabric:

1. Post-pasting: first make TPU film and then glue it with the fabric;
2. Online compounding: apply glue on the fabric or not, and directly drool TPU on the fabric to make TPU composite fabric or mesh cloth.

TPU composite fabrics are used in: inflatable life jackets, diving BC jackets, life rafts, inflatable boats, inflatable tents, military inflatable self-expanding mattresses, massage airbags, medical anti-bedsore mattresses and professional waterproof backpacks.

Some inspection standards for TPU composite fabrics:

Physical and mechanical properties standards		Unit	Index					
			70D	210D	420D	840D	2000D	4500D
Tensile Strength	MD ≥	KG/inch	22	40	50	70	140	260
	TD ≥		19.5	35	40	60	130	260
Tear Strength	MD ≥	KG	2	2.6	4.5	5	15	20
	TD ≥		2	2.7	4.5	6	15	20
Heat seal strength		g/inch	18	28	30	35	50	60
Peel strength		KG/in≥	1.2	2.5	3.0	3.5	4.5	6
Glass transition temperature (cold resistance)		/	Polyester material -15℃, domestic polyether material -30℃, imported polyether material -50℃					

Nominal thickness standard /mm	Average thickness deviation /%	Thickness deviation /%
0.01～0.05	±35	±40
0.05～0.10	±25	±30
0.10～0.50	±17	±20
0.50～1.00	±8	±10
1.00～2.50	±7	±10

Appearance Standard	Unit	Index
Defects	in	≤20
End surface irregularity	mm	≤5
End surface scratches/ oil stains/ impurities	/	None
Bubble	/	None
Surface scratches/ wrinkles/ oil stains/ impurities	/	None
Flatness	/	No obvious wavy loose edges
Fabric core	/	No dents or chips

Size Standard	Unit	Index
Length	%	0.00～1.00
Width	mm	±5.00

Weight standard	Unit	Index					
		70D	210D	420D	840D	2000D	4500D
Thickness	mm	0.31～0.33	0.39～0.41	0.54～0.56	06～0.65	0.85～0.9	1.45～1.5
Weight	g/m²	340～370	420～450	625～665	740～800	950～1050	1700～1800
Width	mm	1430-1450	1450-1470	1450-1470	1450-1470	1800-1820	1800-1820

TPU composite fabric outdoor materials are suitable for:





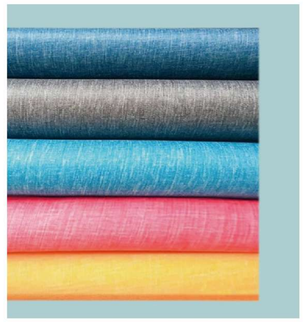


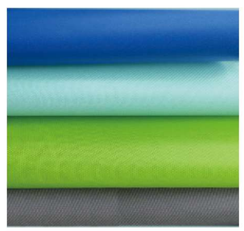


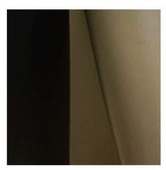



TPU composite cloth luggage materials are suitable for:








TPU composite cloth tool materials are suitable for:












TPU composite fabric professional fabric for lifesaving:



TPU composite fabric for medical use:











TPU composite fabric for inflatables:

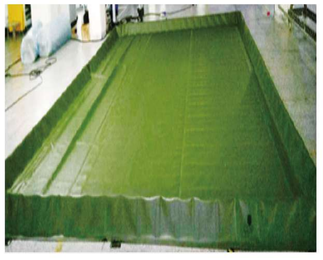








TPU various types of mesh composite fabrics:







Experimental and production equipment



















