

One Stop For All Your Formulation Needs

JRS performance material is a manufacturer and distributor of glassfiber related materials for a wide range of end-use applications. JRS's products include glassfiber tissue, Mesh cloth, Non-woven fabric, silicone fluids, LSR/HCR silicone rubber and other building related products. JRS has the necessary technical expertise to develop and prepare custom materials and solutions to add premier value to our customers.



Competitive Pricing

We provide incredible pricing of a wide selection of materials to meet your needs.



Custom Preparation

In addition to off-the-shelf products, we custom prepare products at varied scales



Strong Technical Expertise

We have more than 25 years of experience in silanes and other silicones.



Wide Product Selections

Looking for materials for adhesives, plastics, inks, rubber, coatings... We've got you covered.

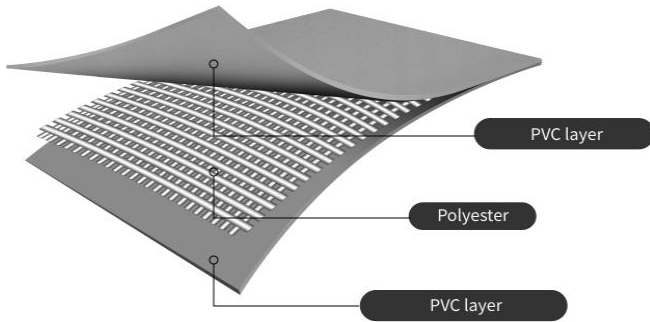
JRS (HangZhou) Performance Material Co, Ltd.

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Tarpaulin Materials

Description:

PVC tarpaulin is a three-ply waterproof fabric, which is based on high-strength polyester, coated with polyvinyl chloride (PVC) paste resin added with various chemical additives such as anti-fungal additive, anti-aging additive and anti-static additive, and then plasticized at high temperature. It has the properties of waterproof, antibacterial, cold resistance, aging resistance, anti-static, etc. The anti-aging effect of PVC tarpaulin is far better than that of PP and PE tarpaulin.

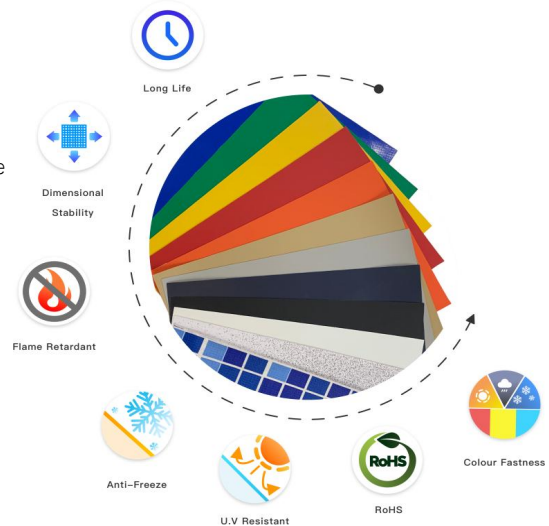


Tarpaulin Materials

PVC tarpaulin is a multi-layer fabric comprising PVC film and a fiber reinforcement layer. It boasts exceptional strength, flexibility, and adaptability, making it suitable for a broad range of applications. Furthermore, it can be customized to meet specific needs and aesthetic preferences.

Product Features:

- **Excellent Strength:** The fiber reinforcement layer provides PVC tarpaulin with remarkable tensile strength and tear resistance, making it highly durable and suitable for a variety of applications.
- **Good Flexibility:** The combination of PVC film and fiber reinforcement imparts flexibility to the tarpaulin, enabling it to conform to different shapes and curves.
- **Diverse Surface Textures:** During the manufacturing process, tarpaulin undergoes embossing, resulting in various surface textures such as matte, taffeta, and polished finishes. These textures not only influence visual appearance but also affect light reflection and smoothness.
- **Customizable Colors:** The color of PVC tarpaulin can be customized according to customer requirements to meet specific aesthetic demands.
- **Wide Range of Applications:** Due to its versatile characteristics, PVC tarpaulin finds applications in various fields, including truck covers, tents, pool covers, etc. Different surface textures and properties cater to different purposes and environments.



Details of PVC Tarpaulin:

Product Name:	PVC Tarpaulin
Material:	PVC+Polyester
Polyester Denier:	200D/500D/840D/1000D/1500D,etc
Gram Weight:	200gsm-2000gsm
Color:	White, Black, Grey, Green, Blue, Yellow, Red, etc
Working Life:	More than 5 years
Features:	Waterproof, High Tensile Strength, Fire Retardant, Anti UV, Heavy Metal Free, Anti Mildew, Flexible, Heavy Duty, Self Clean, etc are available

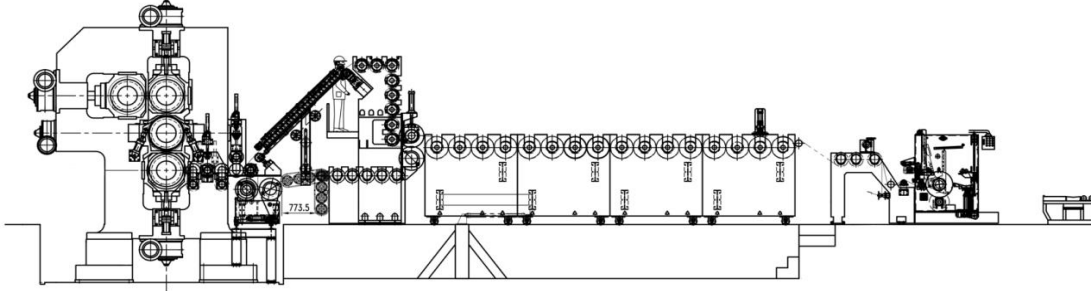
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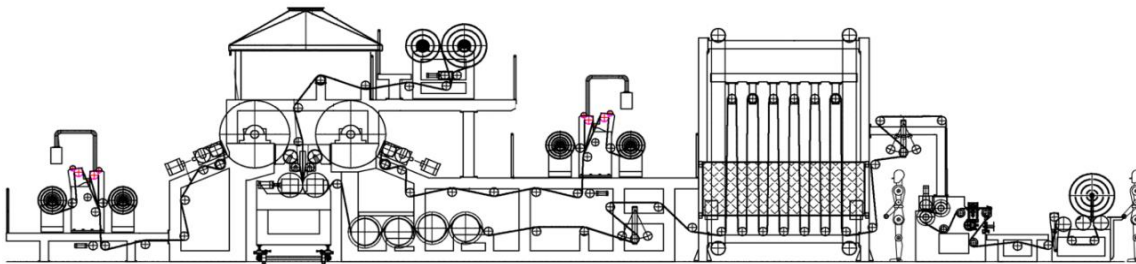
PRODUCTION MACHINERY

In the manufacturing process of PVC tarpaulin fabrics, various machines are employed for different fabric specifications:

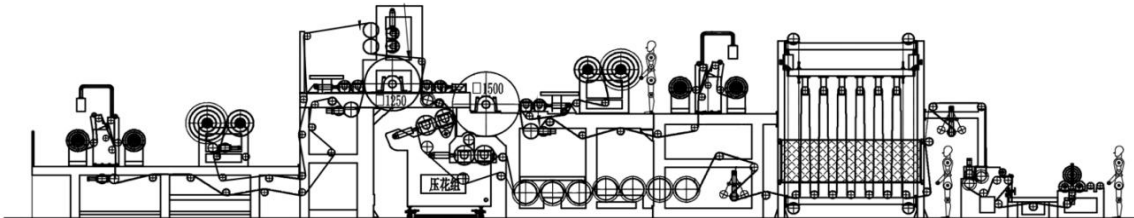
◎ **Calendering Machine:** Transforms PVC raw material into paste and calenders it into different thicknesses of PVC film using a roller system. The film is bonded to polyester backing and finished with gloss, matte, or embossed textures.



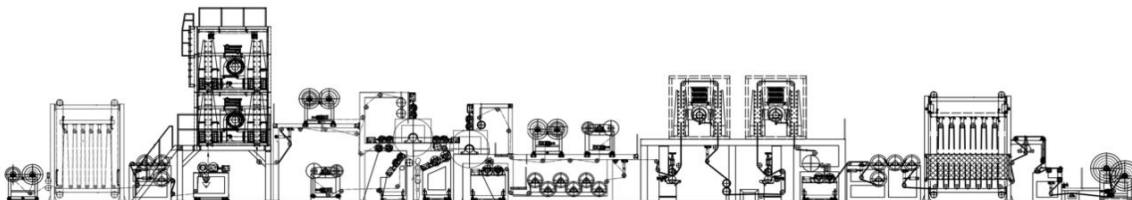
◎ **Cold Lamination Machine:** Used for laminating PVC films onto polyester fabric quickly and cost-effectively, often for lower-priced products.



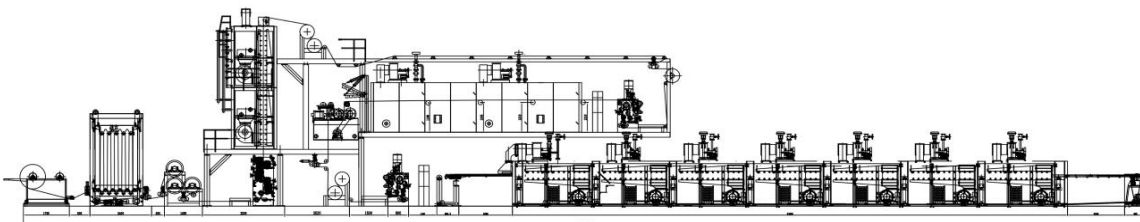
◎ **Hot Lamination Machine:** Advanced version of cold lamination, offering higher quality and durability. It can apply acrylic coatings for self-cleaning and enhance adhesion for semi-coated PVC tarpaulin.



◎ **Semi-Coated Machine:** Its primary task is to bond two or more different materials together through coating or adhesive, creating a composite material. This can provide enhanced strength, waterproofing, and other performance characteristics.



◎ **Coating Machine:** Primary function is to evenly apply liquid or powder materials onto the surface of a substrate to create a uniform coating, thereby enhancing the material's performance and appearance.



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⊙Description

Coated mesh has many excellent properties such as good tensile and tear strength, good color fastness, anti-aging and good printing effect.

The polyvinyl chloride can be treated to have certain properties such as FR (NFPA701, B1/B2, M2, DIN75200, ASTM D1230), anti-mildew (ASTM G 21-13), anti-UV (ISO 4892-3:2016 & ISO105-A02:1993), cold resistance (ISO 17233:2002) and environmental protection (EN71-3, Reach, RoHS) to satisfy customers' special requests.



⊙Product Parameters

⊙250*250D/22*19, 500*500D/18*18, 1000*1000D/9*9, 1000*1000D/12*12, etc.

⊙Weight (GSM): 130G, 220G, 250G, 270G, etc.

⊙Characteristic

⊙Good breathability, Lightweight and comfortable

⊙Good tensile and tear strength, Rich colors

⊙Anti-aging, Durability

⊙Technical Datasheet

Product Code	Weight(GSM)	Tensile Strength (N/5CM)		Tearing Strength (N/5CM)	
		L	W	L	W
150*150D 14*9	250	500	350	30	30
250*250D 22*19	130	1000	900	150	130
500*500D 9*9	220	750	740	150	120
1000*1000D 9*9	250	1300	1200	210	200
1000*1000D 12*12	260	1400	1300	250	220
500*1000D 18*12	260	1000	1400	160	200
1000*1000D 14*14	310	1900	1700	210	190
Test Method	DIN53352	DIN53354		DIN53363	
Environmental (Optional)	REACH/ROHS/EN71/ASTM-F963				
Color	ANY COLOR				
FR Certification	B1/B2/M1/M2/NFPA-701/DIN75200/ASTM D1230				
Temperature Resistance	-30°C-- +70°C				
Width (M)	UP TO 5.1M				

All our Technical Characteristics are Referential.

⊙Application

Widely used for advertising printing, construction protective net, etc.

⊙Storage

This product should be stored in a dry, ventilated and rainproof place, with temperatures from 5°C to 35°C and humidity between 35% and 65%. It is recommended to be kept in intact package when not used to avoid damp.

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- ⊙250*250D/22*19, 500*500D/18*18, 1000*1000D/9*9, 1000*1000D/12*12, etc.
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RV Awning Sun Shade

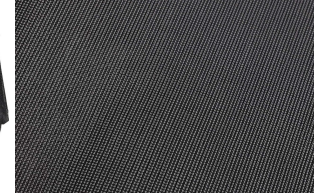


DESCRIPTION:

Size: 9'X7', 10'3" x 7', 10'3" x 8', 10'3" x 9', 15'3" x 7', 15'3" x 8', 15'3" x 9', 19'3" x 7', 19'3" x 8', 19'3" x 9', etc.

Product Features:

- * This RV awning screen is an open-weave fabric side shade could block 85% of the UV but not you view to protect your skin and eyes, and still giving privacy!
- * RV awning shades screen will cut the sun's glare, lowering the temperature and creating an extra shade place to you.
- * Black mesh screen sunshade come with plastic stakes, bungees, hooks and screws to help you secure the RV awning from blowing up in the wind, breaks especially the force of cross-wind.
- * Light weight and comfortable hand feeling.



Baby Safety Gate

DESCRIPTION:

Size: Customized

Product Features:

- * Retractable design: The retractable baby gate can extend up to 55 inches (140 cm) wide and 34 inches (88 cm) high, which can adapt to the width of any door air case.
- * One-handed operation: It can be opened and closed with one hand, simple two-step operation, press the twist release button; pull the handle to extend the door, and then press the twist lock button to lock.
- * Safe use: With double locking mechanism, strong and soft mesh can prevent dogs from entering and getting injured when they accidentally hit the door.
- * Easy to install: Stairs, doorways, corridors, indoors and outdoors can be installed. Must be installed on a hard surface, such as plasterboard, wood or hard wall.



Characteristic

- ⊙Waterproof and breathable: It can effectively keep water out while allowing air to circulate, preventing internal dampness.
- ⊙UV-resistant and heat-insulating: Blocks 85% of UV rays, reduces temperature and provides a comfortable shaded space.
- ⊙Wind-resistant and stable: Sturdy in texture, it can enhance the wind resistance of products when combined with accessories like plastic stakes and bungees, especially against cross-winds.
- ⊙Lightweight and durable: Easy to install and carry, with a comfortable feel and long service life.

Application

Outdoor Scenarios

- RV Awnings
- Campgrounds
- Outdoor Patios

Indoor Scenarios

- Windows and Doors
- Baby safety Gates

Other Scenarios

- Greenhouses
- Sports Venues
- Commercial Spaces

Storage

This product should be stored in a dry, ventilated and rainproof place, with temperatures from 5°C to 35°C and humidity between 35% and 65%. It is recommended to be kept in intact package when not used to avoid damp.

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Composite Scrim Product

JRS supply biaxial and multi-axia Fiberglass Laid Scrim and Polyester Laid Scrim, Our products mainly cover the following categories:

1. Non-woven fiberglass laid scrim
2. Non-woven polyester laid scrim
3. Fiberglass tissue/non-woven fabric with Fiberglass/Polyester laid scrim composite product

Each of the above products supports customization, and yarn specifications/tissue specifications/non-woven fabric specifications/mesh size/weight/width and etc. can be matched according to customer needs.



Product Application

Non-woven laid scrim is a cost-effective reinforcing fabric constructed of continuous filament yarn in an open mesh construction, fiberglass tissue/Non-woven fabric with mesh is combined with laid scrim and fiberglass tissue/non-woven fabric, which is widely used in aluminum foil laminated, double sided adhesive tape, medical tissue composite, PVC sports flooring, building material, automotive interior and etc. It can be composite with many materials because of the unique constructions and features.

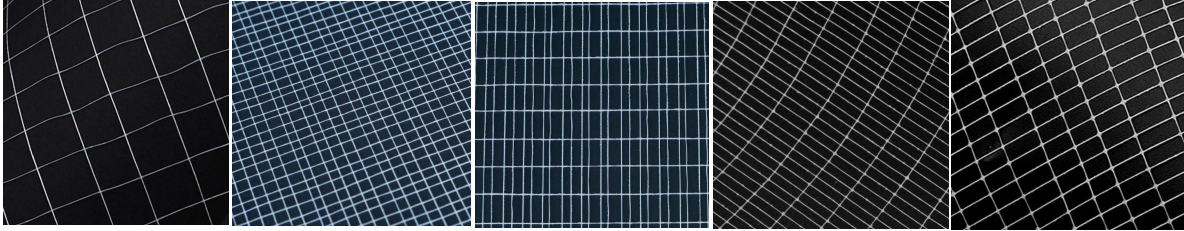


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⊙ Description

Fiberglass laid scrim is a versatile and high - performance reinforcing non - woven fabric. Made from continuous filament fiberglass yarn, it features an open mesh structure formed by arranging yarn in specific patterns and chemically bonding them.



⊙ Characteristic

High Strength and Stability: It has high tensile strength and tear resistance, can enhance the mechanical strength of products, and its dimensional stability ensures that composite materials maintain shape and performance during use.

Excellent Resistance: It's resistant to alkali, water, fire, and microbes, so it can be used in harsh environments for a long time without degrading.

Lightweight and Easy to Handle: With low unit weight, it's convenient for transportation and operation, and can be easily cut and installed on-site to meet different construction requirements.

Good Compatibility: It can be fully bonded with various materials like nonwovens, films, and foils to create composite products with unique properties.

⊙ Technical Datasheet

结构mm	单位面积质量 (g/m ²)	经纱 (tex fiberglass)	纬纱 (tex fiberglass)	经向强力 (N/50mm)	纬向强力 (N/50mm)	经向延伸率 (%)	纬向延伸率 (%)
5.0 * 5.0	15.5(±8%)	34	34	200	200	2.9	2.9
5.0 * 5.0	31.68(±8%)	68	68	350	350	2.9	2.9
3.0 * 3.0	25(±8%)	34	34	280	280	2.9	2.9
3.0 * 3.0	49.73(±8%)	68	68	775	775	2.9	2.9
3.0 * 10.0	33(±8%)	68	68	360	200	2.9	2.9
3.0 * 12.0	16(±8%)	34	34	300	80	2.9	2.9
6.25 * 6.25	12.4(±8%)	34	34	150	150	2.9	2.9
6.25 * 12.5	9.3(±8%)	34	34	150	70	2.9	2.9
12.5 * 12.5	6.3(±8%)	34	34	80	80	2.9	2.9
10.0 * 10.0	7.78(±8%)	34	34	100	100	2.9	2.9
2.5+10 * 8.0	22(±8%)	68	68	400	320	—	—

⊙ Application

Building and construction: Widely used in roofing membranes, waterproofing materials, vapor barriers, and facade membranes to enhance their mechanical properties and durability.

Flooring industry: Serves as a reinforcement layer in PVC flooring, preventing joints or bulges caused by material expansion and contraction.

Packaging Industry: Used in envelope, cardboard container, and paper tape manufacturing to reinforce packaging products, improving their strength and performance while keeping costs low.

⊙ Advantages

Cost - effective : Offers a relatively low cost while providing significant reinforcement benefits, making it an economical choice for various applications[^12^].

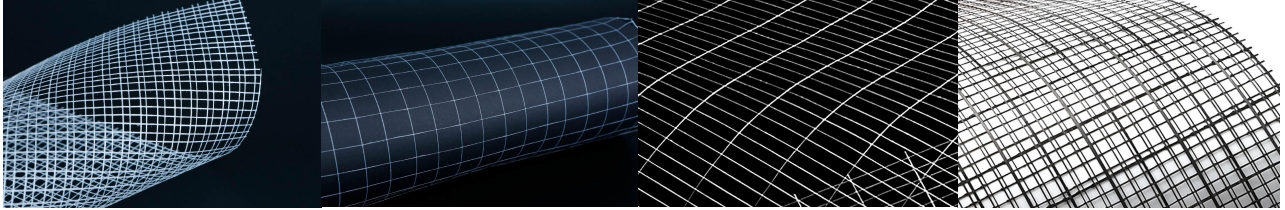
Customizable : Can be customized in terms of fiber direction, mesh size, weight, and adhesive type to meet specific customer requirements and application needs

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⊙Description

Polyester laid scrim is a versatile and cost-effective reinforcing fabric made from continuous polyester filament yarns arranged in an open grid pattern. The manufacturing process involves laying the yarns in biaxial or multi-axial directions and bonding them with adhesives to form a stable structure.



⊙Characteristic

High strength and dimensional stability: Provides excellent tensile strength, tear resistance, and alkali resistance, ensuring the reinforced products maintain their shape and performance under various conditions.

Lightweight and thin: Compared to woven fabrics, it's thinner and lighter, making it suitable for applications where weight is a concern.

Excellent adhesion: Can be fully bonded with a wide range of materials, including PVC, aluminum foils, papers, and nonwovens, ensuring strong interlayer adhesion.

⊙Technical Datasheet

结构mm	单位面积质量 (g/m ²)	经纱 (dtex fiberglass)	纬纱 (dtex fiberglass)	经向强力 (N/50mm)	纬向强力 (N/50mm)	经向延伸率 (%)	纬向延伸率 (%)
2.5 * 5.0	6.5(±8%)	83	83	70	25	21	21
2.5 * 5.0	97(±8%)	550*3+3300	550*3+2200*2	1000	600	2.9	2.9
2.5 * 10.0	6.2(±8%)	83	83	70	15	21	21
3.5 * 5.0	62(±8%)	550*4+2200	550*4+1100	450	180	21	21
8.0 * 12.5	4.7(±8%)	110	110	20	15	21	21
4.0 * 4.0	38.5(±8%)	550	550	350	350	21	21
12.5 * 12.5	1.7(±8%)	83	83	15	15	21	21
4.0 * 6.5	9.6(±8%)	83*2	167	75	45	21	21

⊙Application

Building and construction: Widely used in roofing membranes, waterproofing materials, vapor barriers, and facade membranes to enhance their mechanical properties and durability.

Flooring industry: Serves as a reinforcement layer in PVC flooring, preventing joints or bulges caused by material expansion and contraction.

Packaging Industry: Used in envelope, cardboard container, and paper tape manufacturing to reinforce packaging products, improving their strength and performance while keeping costs low.

⊙Advantages

Cost-effective : Offers a relatively low cost while providing significant reinforcement benefits, making it an economical choice for various applications[^12^].

Customizable : Can be customized in terms of fiber direction, mesh size, weight, and adhesive type to meet specific customer requirements and application needs

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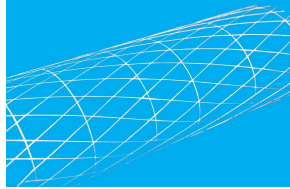
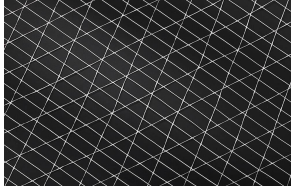
□ Description

Triaxial Laid Scrim is a special reinforcing fabric widely used in various fields. It consists of three layers of fiber materials arranged at angles of $\pm 60^\circ$ and 0° , forming a stable three-dimensional structure. The material is usually made of polyester or glass fiber.

Polyester Triaxial Laid Scrim features high strength, good chemical and weather resistance, making it ideal for long-term stability-demanding products like construction and packaging materials. Glass fiber Triaxial Laid Scrim, known for its high strength and modulus, offers excellent reinforcement, suitable for applications requiring high stiffness and strength, such as roofing waterproof membranes and geotextiles.

Triaxial Laid Scrim has a wide range of applications. In packaging, it makes heavy-duty bags for cement, sand, etc. In construction, it strengthens roofing waterproof membranes and wallpaper backing, boosting their mechanical strength and dimensional stability. It's also crucial in automotive and aviation seats, enhancing support and safety. In civil engineering, it serves as geotextiles for road construction and hydraulic projects, providing reinforcement and stability.

In summary, Triaxial Laid Scrim, with its unique structure and material properties, plays a vital role in many industries as a multi-functional reinforcement material.



⊙ Characteristic

1. Three-layer structure design.
2. High strength and stability.
3. Weather and chemical resistant.
4. Wide-ranging applications.
5. Reinforces and enhances durability.

⊙ Technical Datasheet

名称	单位面积质量 (g/m ²)	经纱	纬纱	经向强力 (N/50mm)	纬向强力 (N/50mm)	经向延伸率 (%)	纬向延伸率 (%)
9.0 * 16.0 * 16.0mm	31.6(±8%)	1100 dtex Polyester	1100 dtex Polyester	300	150	21	21
12.5 * 30.0 * 30.0mm	12(±8%)	68 TEX Polyester	68 TEX Polyester	150	80	21	21

⊙ Application

1. **Construction industry:** Used for roofing waterproofing reinforcement and wallpaper backing to enhance the tensile strength and dimensional stability of materials.
2. **Packaging industry:** Used to make heavy-duty bags for packing materials like cement and sand, offering high strength and impact resistance.
3. **Automotive and aviation industries:** Used as a seat reinforcement in vehicles and airplanes to improve the support and safety of seats.
4. **Civil engineering:** Used as geotextiles in road construction and hydraulic projects to provide reinforcement and stabilization.
5. **Home furnishings:** Used as reinforcement in furniture such as sofas and mattresses to enhance durability and stability.
6. **Footwear manufacturing:** Used to reinforce shoe soles to boost wear resistance and support.
7. **Agriculture:** Used as a reinforcing material in agricultural covers to protect crops.

⊙ Advantages

Cost-effective : Offers a relatively low cost while providing significant reinforcement benefits, making it an economical choice for various applications^[12].

Customizable : Can be customized in terms of fiber direction, mesh size, weight, and adhesive type to meet specific customer requirements and application needs.

JRS (HangZhou) Performance Material Co, Ltd.

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Description

Fiberglass Mat with Mesh is a reinforcing material made of fiberglass and featuring a mesh structure. It is widely used in construction, packaging, and automotive industries due to its high strength, heat resistance, and chemical resistance.



Characteristic

High Strength and Stability: Its high tensile strength enhances composite materials' mechanical properties, ensuring structural stability under external forces.

Excellent Heat Resistance: It maintains performance in high - temperature environments without deformation.

Good Chemical Resistance: It resists most acids and alkalis, making it suitable for harsh chemical conditions.

Breathability and Water Permeability: The mesh structure allows for liquid and gas filtration and separation.

Easy Processing: It can be cut and shaped to meet various application requirements.

Technical Datasheet

名称	单位面积质量 (g/m ²)	经纱 (tex fiberglass)	纬纱 (tex fiberglass)	经向强力 (N/50mm)	纬向强力 (N/50mm)	含水率 (%)	厚度 (mm)
3.0 * 5.0mm M35 34 TEX	75(±10%)	34	34	250	150	≤2	0.6 (±5%)
4.0 * 8.0mm M35 34 TEX	75(±10%)	34	34	250	150	≤2	0.6 (±5%)
3.0 * 3.0mm M95 34 TEX	180(±10%)	68	68	752	734	≤2	1(±5%)

Application

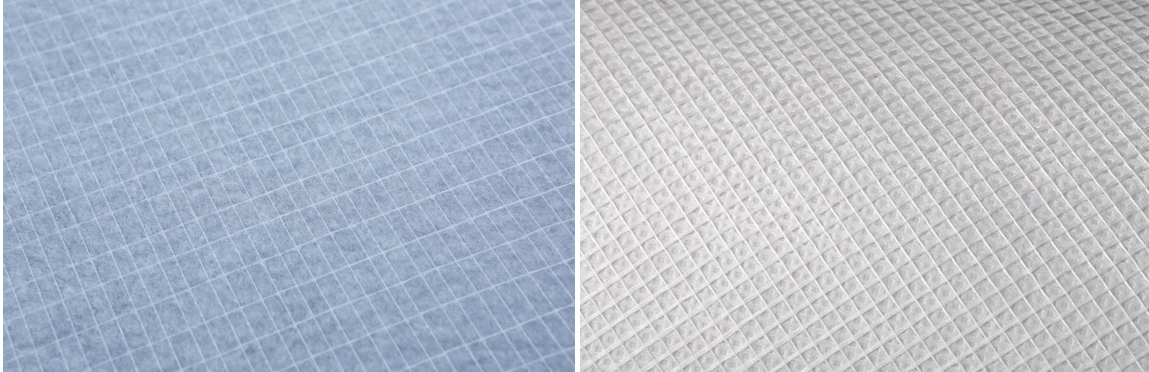
- Construction:** Used in roofing waterproofing and exterior wall insulation to enhance material strength and durability.
- Packaging:** Used for heavy - duty bags like cement bags to provide protection and support.
- Automotive Manufacturing:** Reinforces automotive parts such as body panels and engine components.
- Electronics and Electrical:** Used as insulation materials and printed circuit board substrates.
- Aerospace:** Used in non - critical structural components to reduce weight while ensuring strength.

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Description

Non - woven Fabric with Mesh is a fabric - like material combining non - woven features and a mesh structure. It's formed by bonding short or long fibers via chemical, mechanical, thermal, or solvent processes, with a mesh structure for added breathability and strength.



Production Process

Fiber Selection: Raw materials include natural fibers (cotton, flax, etc.), regenerated fibers (bamboo fiber, etc.), synthetic polymers (polypropylene, polyethylene, PET, etc.), and high - performance fibers (carbon fiber, aramid fiber, etc.). The choice depends on the product's end use and performance requirements.

Bonding Methods: Common production methods are needle punching, spun - bonding, water jetting, thermal bonding, wet - laying, and melt - blowing. For example, needle punching forms a stable structure by repeatedly刺 with hooked needles, often used in geotextiles and carpet backings. Spun-bonding forms fabric by laying melt - spun and stretched fibers into a web and bonding them via heat or chemicals, suitable for shopping bags and packaging materials.

Characteristic

1. High strength and durability.
2. Breathable and water-permeable.
3. Easy to process and shape.
4. Cost-effective material.
5. Wide application ranges.

Technical Datasheet

名称	成品克重 (g/m ²)	经纱 (tex fiberglass)	纬纱 (tex fiberglass)	经向强力 (N/50mm)	纬向强力 (N/50mm)	无纺布规格 (g/m ²)	厚度 (mm)
4.0 * 6.0mm N25 68 TEX	62(±8%)	68	68	600	400	25±8%	0.6 (±5%)
3.0 * 3.0mm N70 68 TEX	150(±8%)	68	68	883	869	70±8%	0.54 (±5%)

Application

1. **Packaging Industry:** Commonly used for shopping bags. Its breathability and water permeability help ventilate contents while offering protection and support.
2. **Construction Industry:** Used in exterior wall insulation systems to enhance insulation material strength and stability.
3. **Automotive Manufacturing:** As a seat reinforcement in cars, it improves seat comfort and durability. It's also used for interior sound-proofing and heat-insulating materials.
4. **Furniture Manufacturing:** In products like sofas and mattresses, it acts as a reinforcement and stabilizing material, extending product lifespan.
5. **Agriculture:** Serves as crop covers for heat preservation, moisture retention, and pest control, while allowing air and water circulation.
6. **Filter Materials:** Thanks to its breathability and water permeability, it's used in air and liquid filters, such as in air filters and liquid filters.
7. **Medical Industry:** Used for disposable medical protective items like protective suits and masks. Its breathability and filtration properties provide comfort and basic protection.
8. **Civil Engineering:** Functions as geotextiles in road construction and hydraulic projects for reinforcement and stabilization.

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