

# 玻璃纤维制品

*Fiberglass*

***Mats and Woven Rovings***





**制毡工艺**

**编织工艺**

**Mat Production Process**

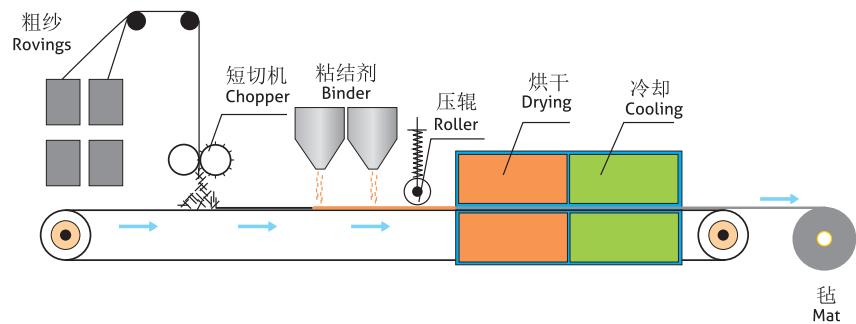
**Spray-up Process**

# 制毡工艺

将玻璃纤维纱短切成一定长度，随机沉降在输送带上，然后用粉剂或乳剂粘结剂将这些短切纤维粘结在一起，经过烘干、冷却和卷绕，形成短切原丝毡。

# Mat Production Process

Assembled rovings are chopped to a specified length, and then fall onto a conveyor randomly. The chopped strands are bonded together by either an emulsion binder or a powder binder. After drying, cooling and winding, a chopped stand mat is formed.






## 无碱玻璃纤维乳剂短切原丝毡

无碱玻璃纤维乳剂短切原丝毡是由玻璃纤维原丝经短切后，随机无定向均匀平铺，然后用乳剂粘结剂粘合在一起而制成的片状毡片。可使用于增强UP和VE等。幅宽范围200mm ~ 3120mm，特殊规格可根据客户要求生产。

## Emulsion Chopped Strand Mats

Emulsion Chopped Strand Mats are made of randomly distributed chopped strands held together by an emulsion binder. They are compatible with UP and VE resins. The roll width ranges from 200mm to 3,120mm. Special requirements may be available upon request.

产品牌号 Product Code	产品详情 Details	单位面积克重 Area Weight (g/m²)	典型幅宽 Typical Width (mm)	适用树脂 Resin Compatibility	产品特点 Product Features
E01		225, 300, 450 600, 900	1040, 1270	聚酯树脂 乙烯基树脂 UP, VE	拉伸强度高，适用于生产面积较大的产品，操作时无飞扬，树脂浸穿性好浸透快，气泡易排除，制品机械强度高，耐酸腐蚀性优异 High tensile strength, allowing for use in hand lay-up process to produce large-area parts, no airborne fiber when operating, good wet-through and fast wet-out in resins, rapid air lease, high mechanical strength, superior acid
E10		225, 300, 450 600, 900	1040, 1270	聚酯树脂 乙烯基树脂 UP, VE	辊压排泡性非常好，树脂含量低 Rapid air lease reducing rolling out times, low resin consumption
E20		225, 300, 450 600, 900	1040, 1270	聚酯树脂 乙烯基树脂 UP, VE	覆模性好，树脂浸穿性好浸透快，气泡易排除，辊压次数少，树脂消耗少，制品机械强度高，耐酸腐蚀性优异 Good moldability, good wet-through and fast wet-out in resins, rapid air lease reducing rolling out times and increasing productivity, low resin consumption, high mechanical strength of composite products, superior acid corrosion resistance





## 无碱玻璃纤维粉剂短切原丝毡

无碱玻璃纤维粉剂短切原丝毡是由玻璃纤维原丝经短切后，随机无定向均匀平铺，然后用粉剂粘结剂粘结在一起而制成的片状毡片。可适用于增强UP、VE、EP和PF等。产品幅宽范围200mm~3120mm，可根据客户的使用要求和习惯，提供不同浸透和分解时间要求的产品。

## Powder Chopped Strand Mats

*Powder Chopped Strand Mats are made of randomly distributed chopped strands held together by a powder binder. They are compatible with UP, VE, EP and PF resins. The roll width ranges from 200mm to 3,120mm. Additional demands on wet-out and decomposition time can be available upon request.*

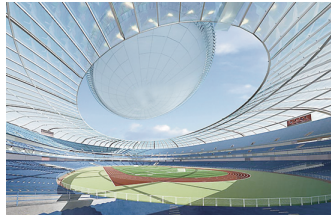
产品牌号 Product Code	产品详情 Details	单位面积克重 Area Weight (g/m <sup>2</sup> )	典型幅宽 Typical Width (mm)	适用树脂 Resin Compatibility	产品特点 Product Features
P02		225, 300, 450 600, 900	1040, 1270	聚酯树脂 乙烯基树脂 环氧树脂 UP, VE, EP	拉伸强度高，适用于手糊工艺生产面积较大的制品，树脂浸穿性好，浸透速度快，气泡易排除，制品机械强度高，耐酸腐蚀性优异 <i>High tensile strength, suitable for use in hand lay-up process to produce large-area parts, good wet-through and fast wet-out in resins, rapid air release, high mechanical strength</i>
P20		225, 300, 450 600, 900	1040, 1270	聚酯树脂 乙烯基树脂 环氧树脂 UP, VE, EP	毡质柔软，覆模性好，手工撕裂方便，树脂浸穿性好浸透快，气泡易排除，辊压次数少，树脂消耗少，制品机械强度高，耐酸腐蚀性优异 <i>Soft mat, ease of manual tearing apart, good conformability, good wet-through and fast wet-out in resins, rapid air release reducing rolling out times and increasing productivity, low resin consumption, high mechanical strength of composite products, superior acid corrosion resistance</i>

## 制毡工艺的终端应用市场

建筑 / 化学化工 / 船舶 / 基础设施 / 汽车 / 卡车

## End-Use Markets

Building and Construction / Chemistry and Chemical / Marine / Infrastructure / Automotive



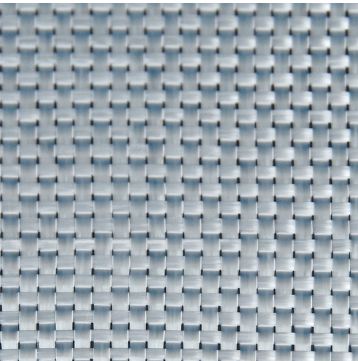
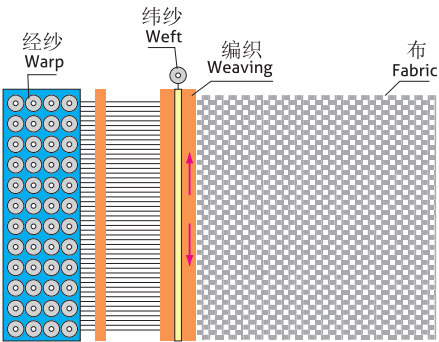


# 编织工艺

经向和纬向的无捻粗纱以一定的规律交织形成无捻粗纱织物。

## Weaving Process

Woven fabrics are made on looms with warp or weft reinforcement threads interlaced with each other in varying configurations to give different fabric styles.




### 玻璃纤维无捻粗纱布

玻璃纤维无捻粗纱布是适用于增强聚酯树脂、环氧树脂、乙烯基树脂等。玻璃纤维无捻粗纱布单位面积质量范围260g/m<sup>2</sup>~1600g/m<sup>2</sup>，幅宽范围50mm~3000mm。按照组织结构分为：平纹布，斜纹布。特殊规格可根据客户要求生产。

### Woven Rovings

Woven Rovings are compatible with UP, VE, EP and PF resins. Woven Rovings are a weight range of 260g/m<sup>2</sup> ~1,600 g/m<sup>2</sup> and available with a width range of 50mm ~3,000mm. Our products have both plain and twill weaves. Other specifications are also available on customer request.

结构类型 Structure Type	产品牌号 Product Code	单位面积克重 Area Weight (g/m²)	典型幅宽 Typical Width (cm)	适用树脂 Resin Compatibility	产品特点 Product Features	产品详情 Details
平纹 Plain	EW R270	261	10, 16, 130	聚酯树脂 乙烯基树脂 环氧树脂 UP, VE, EP	适用于手糊工艺， 模压工艺，浸透快， 力学性能优良  Fast wet-out, excellent mechanical properties, suitable for hand lay-up and compression molding	
	EW R300J	300	10, 16, 127			
	EW R400E	400	40, 100, 127			
	EW R600E	600	100, 127			
	EW R800E	800	100, 127			
	EW R1000A	1000	100, 127			
	EW R1500	1488	100, 127			
平纹 Plain	EW R360D	354	10, 16, 130	环氧树脂 EP	适用于缠绕工艺， 力学性能优良，如管道接头等 Excellent mechanical properties, suitable for pipe joints with weaving process	
	EW R580D	576	10, 16, 130			
平纹 Plain	EW R400F	402	100, 127	环氧树脂 EP	适用PCM工艺， 力学性能优异，如电池壳体 Excellent mechanical properties, suitable for battery housing with PCM process	
	EW R450F	452	100, 127			
平纹 Plain	EW R610F	612	100, 127	环氧树脂 EP	适用于吸能、抗冲击复合材料 Suitable for energy-absorbing and impact-resistant composite materials	
	EW R680D	680	100, 130			
斜纹 Twill	EW R850D	860	124, 5	聚酯、环氧树脂 乙烯基树脂 UP, EP, VE	布面软，适合加工复杂部件 Soft fabric surface, suitable for fabricating complex parts	
	EW R500T3	528	100, 127			
	EW R1000T3	1008	100, 127			

### 编织工艺的终端应用市场

建筑 / 化学化工 / 船舶 / 休闲 / 汽车 / 卡车  
电子电气和电信 / 运动 / 风能

### End-Use Markets

Building and Construction / Chemistry and Chemical / Marine / Leisure / Automotive  
Electrical and Electronics / Sports / Wind Energy



开模成型用玻璃纤维产品 Fiberglass Products for Open Molding	喷射成型工艺 Spray-up Process
	手糊成型工艺 Hand Lay-up Process
管道成型用玻璃纤维产品 Fiberglass Products for Pipes	缠绕成型工艺 Filament Winding Process
	离心浇铸成型工艺 Centrifugal Casting Process
模压成型用玻璃纤维产品 Fiberglass Products for Compression Molding	SMC成型工艺 SMC Process
	BMC成型工艺 BMC Process
	LFI工艺 LFI Process
连续型材用玻璃纤维产品 Fiberglass Products for Continuous Profiles	拉挤成型工艺 Pultrusion Process
	连续板材成型工艺 Continuous Panel Molding Process
热塑性塑料用玻璃纤维产品 Fiberglass Products for Thermoplastics	挤出与注塑工艺 Extrusion and Injection Processes
	LFT成型工艺 LFT Process
	GMT成型工艺 GMT Process
	CFRT成型工艺 CFRT Process
其它玻璃纤维产品 Fiberglass Products for Other Processes	膨化工艺 Texturizing Process
	增强石膏工艺 Reinforcements for Gypsum
	汽车顶棚成型工艺 Automotive Headliner Molding Process
布毡用玻璃纤维产品 Fiberglass Products for Fabrics and Mats	编织工艺 Weaving Process
	制毡工艺 Mat Production Process
玻璃纤维制品 Fiberglass Mats and Woven Rovings	制毡工艺 Mat Production Process
	编织工艺 Weaving Process
高性能复合纤维 High Performance Hybrid Fibers	模压成型 Mold Pressing
	层压板材成型 Laminate Molding
	缠绕成型 Filament Winding
	拉挤成型 Pultrusion
	真空辅助成型 Vacuum-Assisted Molding
连续型玻璃纤维布/纱 Continuous Electronic Glass Fiber Fabric and Yarn	连续型玻璃纤维布 Continuous Electronic Glass Fiber Fabric
	连续型玻璃纤维纱 Continuous Glass Fiber Yarn



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