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Guangdong Cinon New Material Technology Co., Ltd

Composite Material & Solution Supplier

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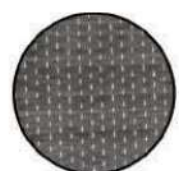
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COMPANY INFO

Focusing on the development and promotion of products in composite material industry, Cinon offers a wide range of advanced solutions and relevant materials for manufacturing processes, as well as for research purposes.

Based on the promotion of vacuum infusion process, our products are related to high-class products in composite materials, such as carbon fiber fabric, high performance resin, epoxy adhesive, mold release wax and etc. We provide completely solutions in Vacuum Resin Infusion Molding Process , RTM, pultrusion process and hot pressured tank process, etc.

At present, our products have been applied in high-speed railway industry, yacht manufacturing industry, wind power facilities, new energy vehicles and other fields. With professional technology, stable quality and perfect service, We have won wide recognition all over the world.



Strucell PVC Core Foam



01 Wind Power Marine Industry Rail Transit Aerospace

Strucell P series foam is close-cell cross-link rigid PVC foam, with excellent specific modulus and specific strength. The compressive, tensile, shear and bending mechanical properties are all outstanding.

Strucell P foam has nice size stability and machinability. It can be compatible with many sandwich structure processing methods and compatible with many kinds of resin systems. It is the ideal core for the light weight high strength composite sandwich structure.

Strucell PVC foam surface finishing

Surface Finishing	Figure	Remarks
Plain foam		After the sheets are sliced, no extra surface treatment. For the curved surface, it can be adapted by the thermoforming of the plain sheets.
Perforated foam		Have the around 2mm diameter hole in the foam, the actual hole size can be adjusted based on the foam core thickness and the density. With the hole, the air under the sheets can be expelled and the resin will be fluent to another side.
Grooved foam		The sheet surface is grooved as the resin infusion channel. The groove can be made on one side or both sides, in one direction or both directions. With the resin infusion processing method, the groove will be used as the resin infusion channels, expelling the air in the layup.
Grooved and perforated foam		Based on the grooved surface finishing sheets, have the hole in the groove, the diameter is 2mm, the groove can be in the length direction or the width direction, the groove distance is 20mm.
Double curved foam		The sheets are cut to the 55-60% through the core thickness. The cut location of both sides is staggered. It is used on the curved surfaces. Compared with the countoured cut sheets, the resin absorption is lower.
Contoured foam		The foam is cut into small particles in length and width direction on one side. The glass fiber scrim is bonded on the other side. It is used on the curved surface.

Remarks: Tolerance: width and length $\pm 10\text{mm}$, thickness $\pm 5\text{mm}$. Actually tolerance can be $\pm 0.3\text{mm}$

Aramid Paper Honeycomb Core

Product specifications

- ★ Cell size: 1.83, 2.75, 3.67, 5.5mm
- ★ Density: 32, 40, 48, 64, 80, 96, 128KG/m³
- ★ Supply status: cutting strip, fixed telephone block, slice cut block
- ★ Dimension: 2440*1220mm
- ★ Mechanical properties: the compression strength of pure core material is 0.43~ 5.52mpa
- ★ Working temperature: -60~160 °C
- ★ Storage condition: store under normal temperature and dry condition

Applications

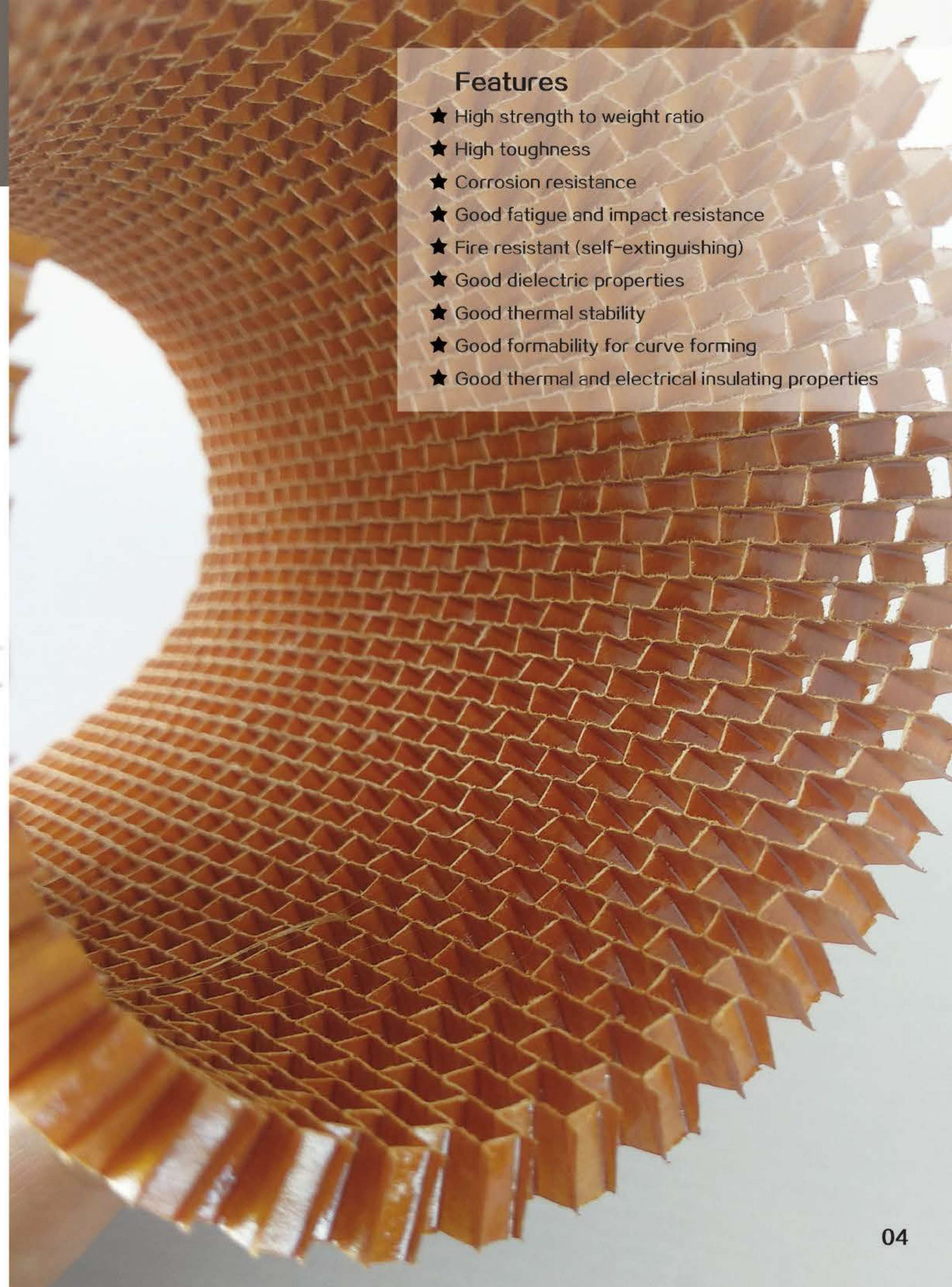
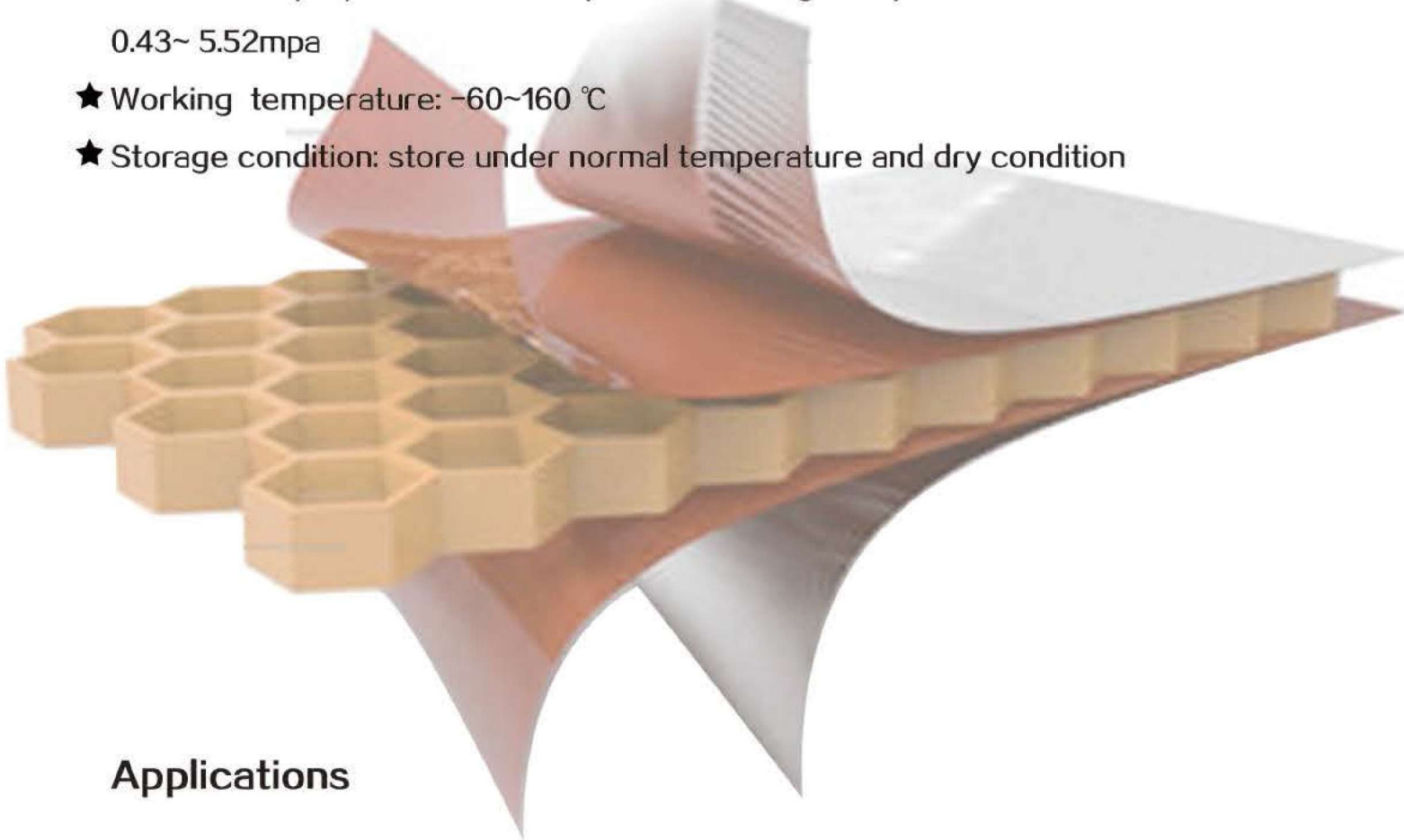
Sports and leisure industries such as surfboards, pleasure boats, skis and auto racing bodies.

Transportation industries such as train car panels and ground transportation structures.

Special projects for marine ground antennas, navy joiner panels and military shelters.

Features

- ★ High strength to weight ratio
- ★ High toughness
- ★ Corrosion resistance
- ★ Good fatigue and impact resistance
- ★ Fire resistant (self-extinguishing)
- ★ Good dielectric properties
- ★ Good thermal stability
- ★ Good formability for curve forming
- ★ Good thermal and electrical insulating properties



PMI Series Core Foam

Technical Data

Item	Unit	T-1000	T-2000	T-3000	T-4000	T-5000
Thickness (Dry)	mm	1.6	2.1	3.1	4.1	5.1
Thickness (Wet)	mm	1.5	2.0	3.0	4.0	5.0
Weight	g/m ²	60	90	135	160	200
Weight	g/cm ³	0.040	0.045	0.045	0.040	0.040
Resin absorption	%	55	60	55	55	55
Width	cm	100	100	100	100	100
Length of Roll	m	50	50	50	50	50
Weight of Roll	kg	About 4	About 5	About 7	About 8	About 10
Dia. of Roll	cm	33	40	48	55	60
Volume of Roll	m ³	0.11	0.16	0.23	0.30	0.36

Features

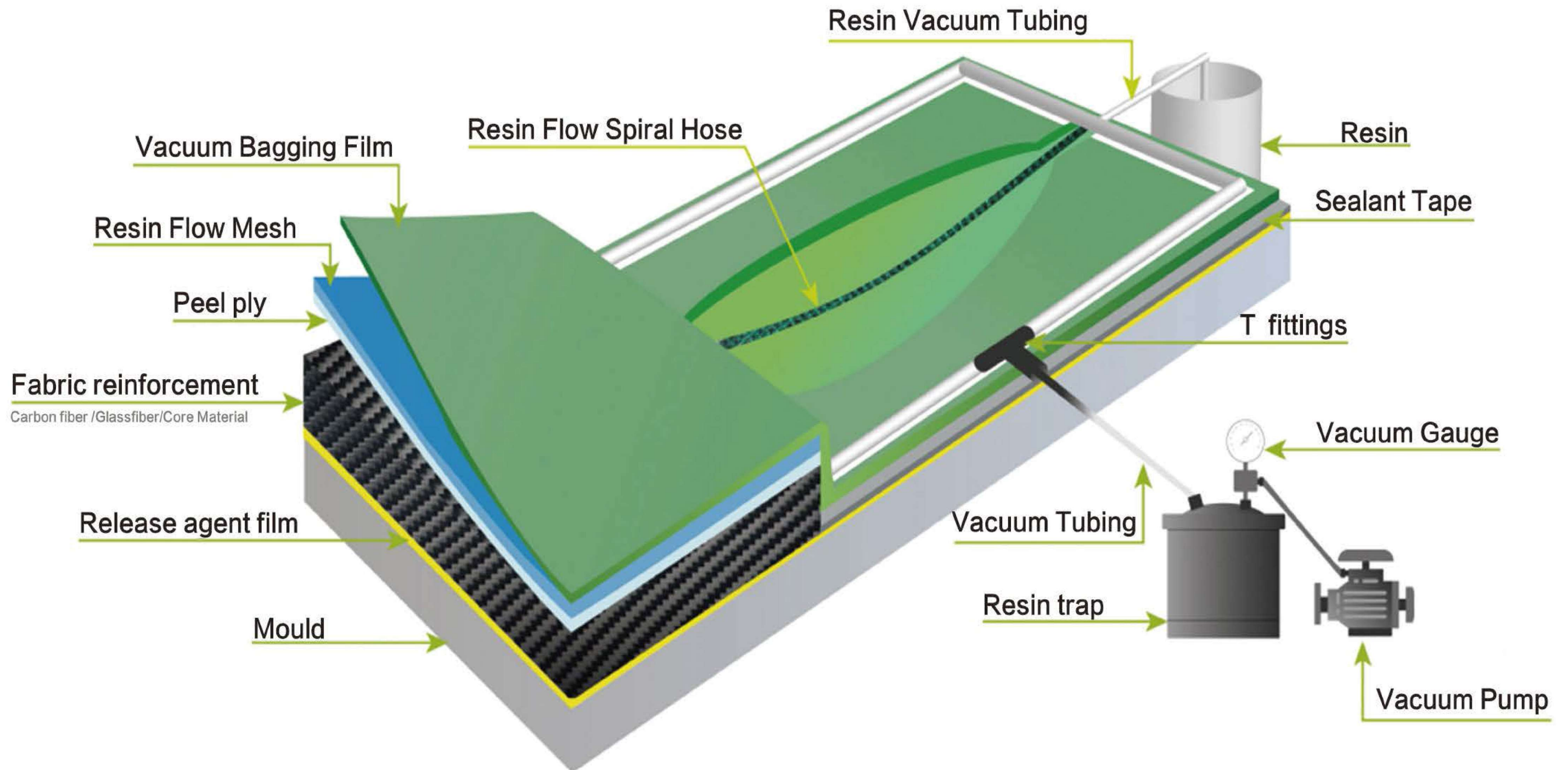
- ★ Excellent mechanical properties, outstanding impact and fatigue resistance
- ★ Good operability and infiltration, suitable for hand paste and spray molding process.
- ★ Improve the appearance of products, and eliminate the lines of glass fiber and abnormal parts.
- ★ Rapidly increase the layer thickness to save operation time.
- ★ Excellent weight reduction.

Item		XK32	XK52	XK75	XK110	XK200	CK52	CK72	CX45	CX75	CX110
Density	kg/m ³	32	5	75	110	205	52	72	45	75	110
Compression Strength	MPa	0.44	1.0	1.7	3.0	7.5	0.81	1.6	0.82	1.8	2.4
Compression Modulus	MPa	23	4	72	119	263	37	57	40	55	86
Tensile Strength	MPa	0.88	1.7	2.6	4.1	8.3	1.4	2.2	1.0	2.3	2.8
Tensile Modulus	MPa	47	7	120	200	443	74	110	51	106	170
130°C Compression Strength	MPa	0.36	0.71	1.1	1.7	3.6	0.60	1.2	0.65	1.2	1.4
130°C Compression Modulus	MPa	18	3	52	76	150	30	49	33	55	63
Torsional Shear Strength	MPa	0.48	0.92	1.6	2.7	7.0	1.1	1.6	0.45	1.2	2.0
Torsional Shear Modulus	MPa	13	2	30	70	168	32	42	14	27	62
Dielectric Constant		1.06	1.08	1.10	1.15	1.27	1.08	1.10	1.07	1.10	1.15
Dielectric Loss Angle Tangent		0.005	0.0052	0.0054	0.0057	0.0065	0.0052	0.0054	0.0051	0.0054	0.0057

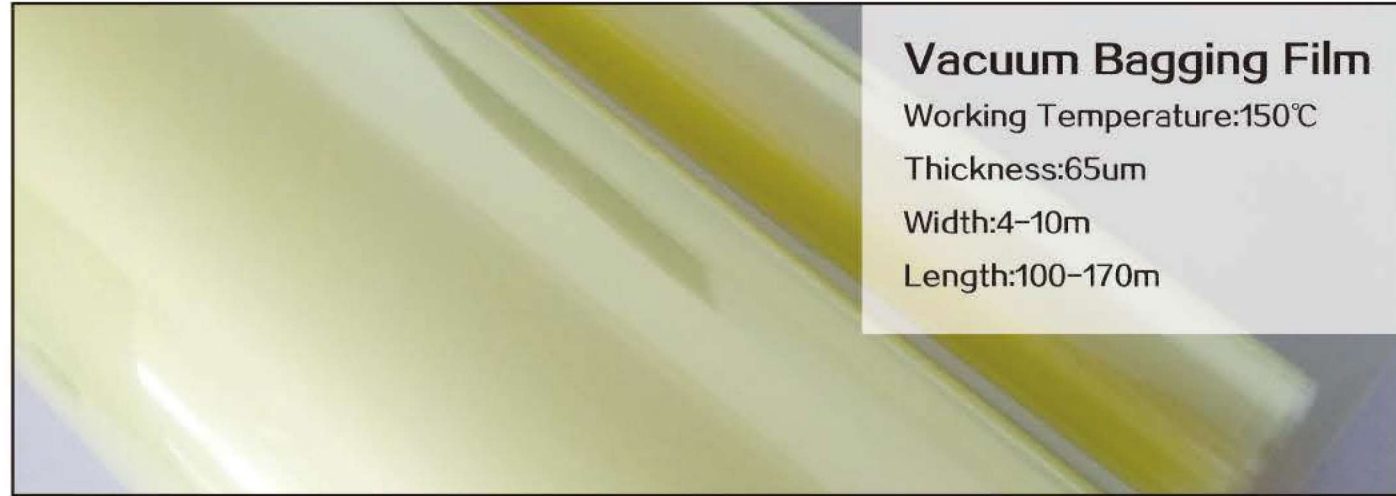


Core Mat

Vacuum Resin Infusion Process



Composite Material



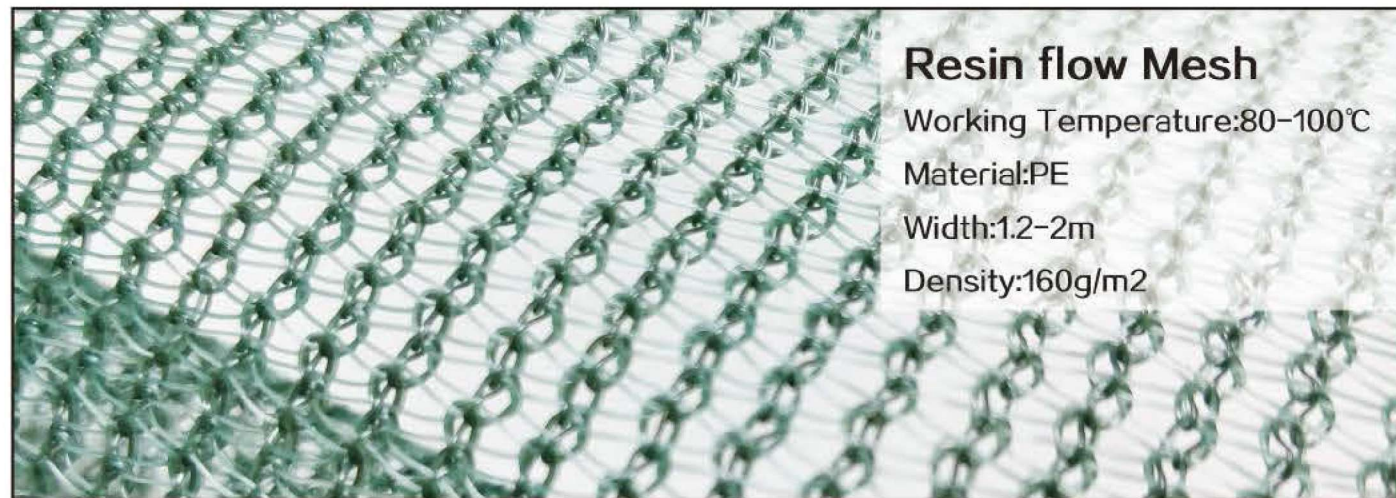
Vacuum Bagging Film

Working Temperature:150°C

Thickness:65um

Width:4-10m

Length:100-170m



Resin flow Mesh

Working Temperature:80-100°C

Material:PE

Width:1.2-2m

Density:160g/m²



Peel Ply

Working Temperature:204°C

Thickness:0.1mm

Width:1.8m

Length:100m



Spiral Hose

Working Temperature:80-120°C

Material:PE

Size:10*12mm, 12*14mm

Length:100m/roll



Vacuum Hose/Tubing

Working Temperature:80-120°C

Material:PE

Size:10*12mm, 12*14mm

Length:100m/roll



Sealant Tape

Working Temperature: 120°C

Material: Butyl rubber

Size:3mm(thickness)*12mm (width)

Length:15m/roll



T fitting

Working Temperature:80-120°C

Material:PE

Size:8mm, 10mm,12mm

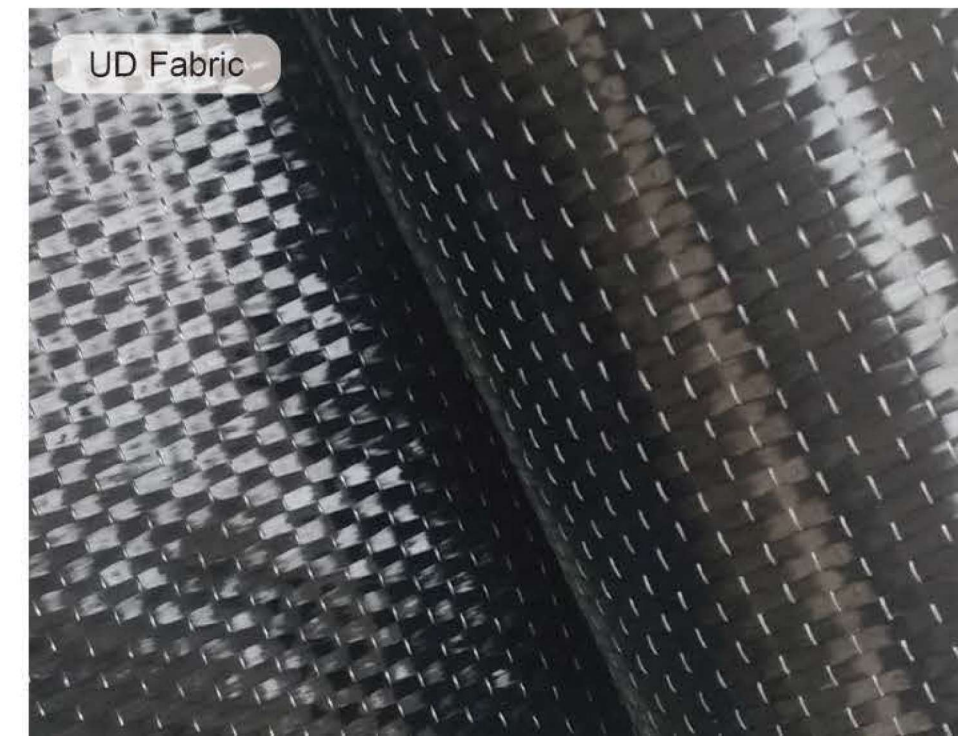
Length:100pcs/bag

Carbon Fiber Fabric

Manufacturing Workshop



Carbon Fiber Yarn: 1K, 3K, 6K, 12K...
Density: From 200GSM to 600 GSM
Fabric Woven: Unidirectional Cloth, Plain Cloth, Twill Cloth, Satin Weave Cloth, Aramid fiber & carbon fiber blended Cloth, Carbon fiber Cloth of Gold and Silver
Width: 100mm-1800mm
Length per roll: 50-100m or customization

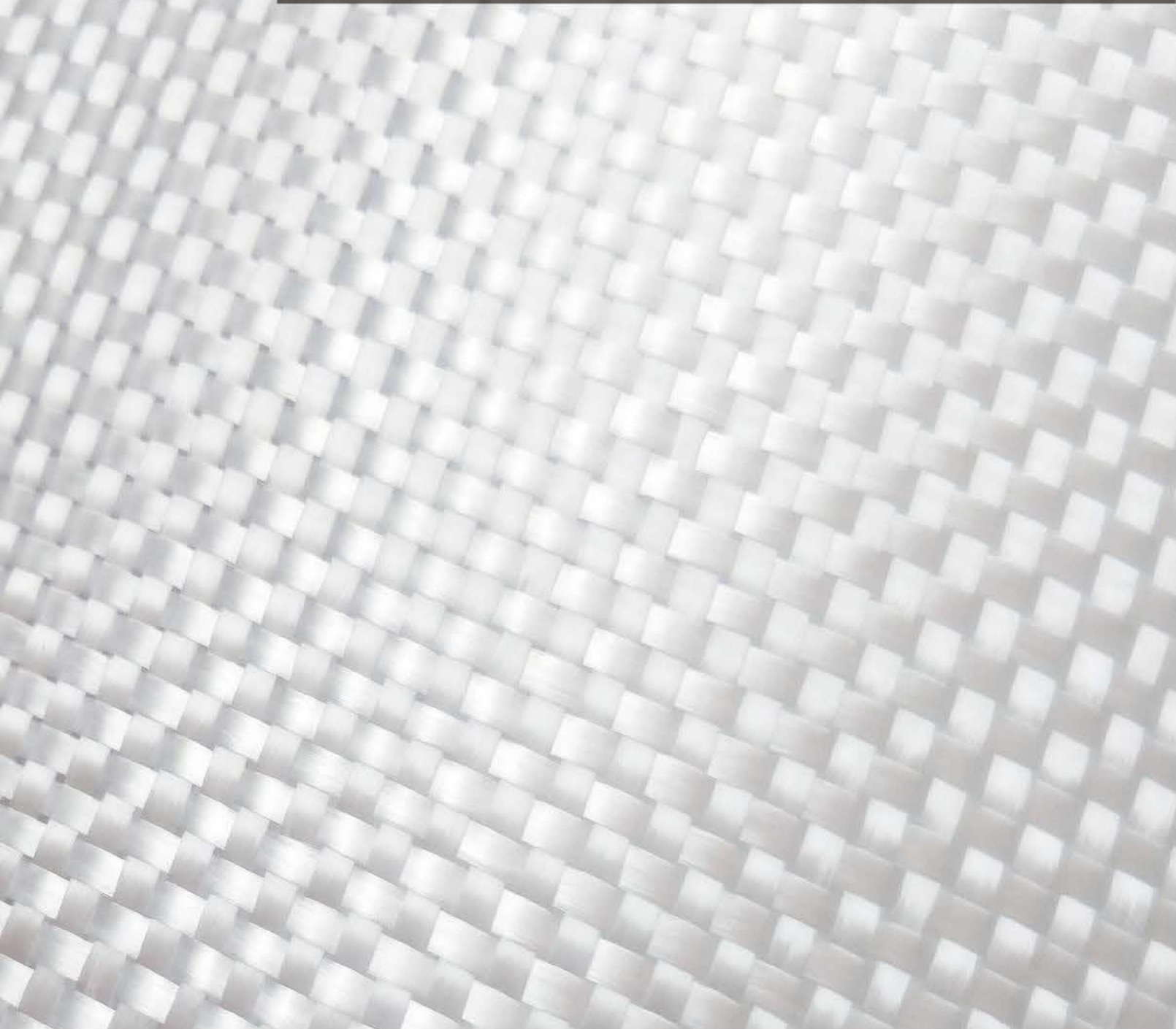


Most sale items

- 12K 200GSM UD
- 12K 300GSM UD
- 3K 200GSM Twill/Plain
- 3K 240GSM Twill/Plain
- 6K 400GSM Twill/Plain



Fiberglass Reinforce Material



Application

- ★ E-Glass Woven Rovings are compatible with unsaturated polyester, vinyl ester, epoxy and phenolic resins.
- ★ E-Glass Woven Rovings are a high-performance reinforcement widely used in hand lay up and robot processes to manufacture boats, vessels, plane and automotive parts, furniture and sports facilities.

Continuous Filament mat

300g	powder/emulsion	30-50KG/roll
375g	powder/emulsion	30-50KG/roll
450g	powder/emulsion	30-50KG/roll

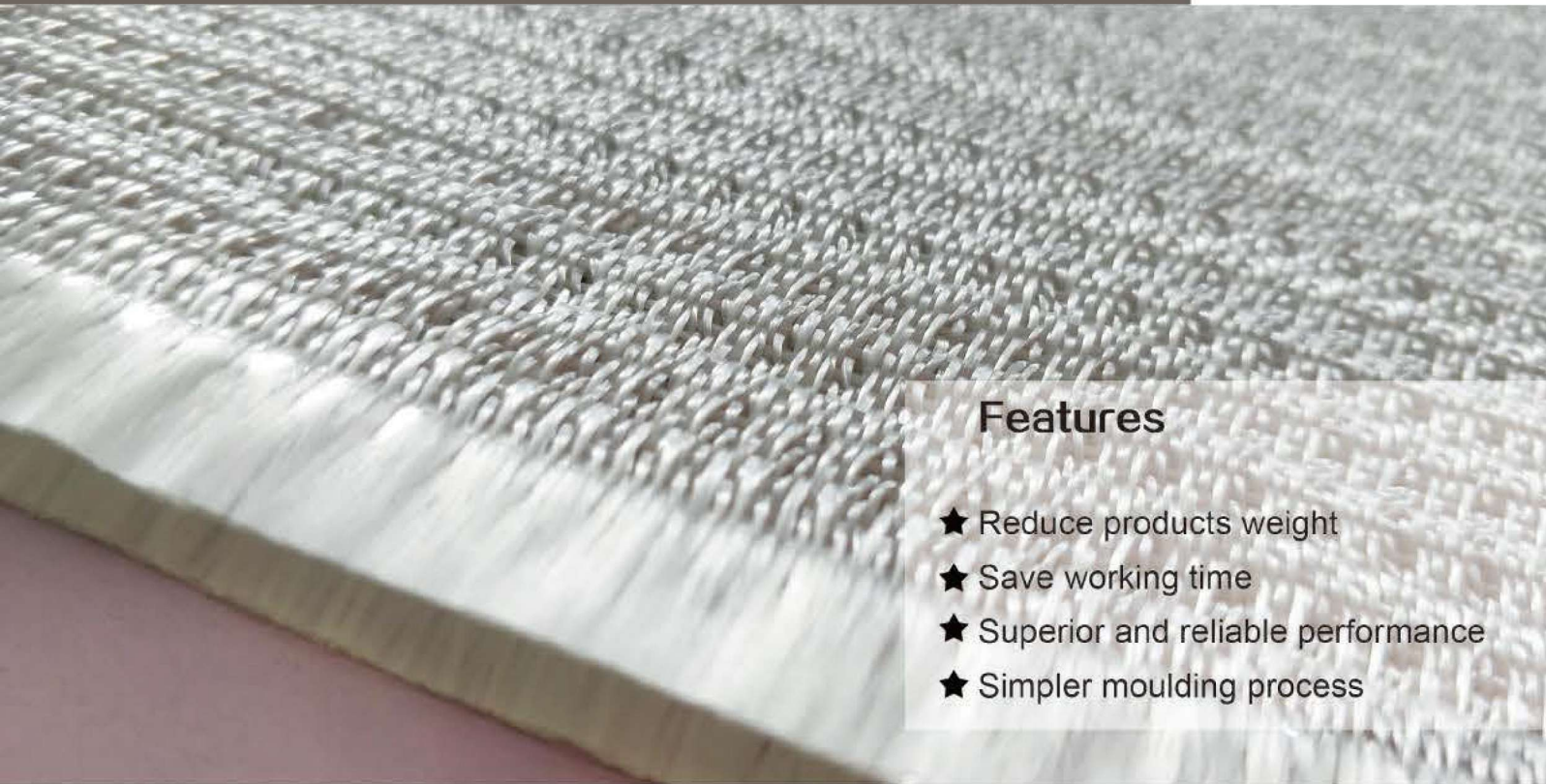
Chopped Strand Mat

Model	Weight	Width	Package	Type
EMC	300g/m ²	1040mm	32 KG	Powder Emulsion
EMC	450g/m ²	1040mm	32 KG	Powder Emulsion

Sandwich Core Mat

Model	Width mm	Short glass fiber g/m ²	PP g/m ²	Multiplayer multiaxial fabric 0°/90°	Total weight g/m ²
EKB600/180/300-1270	1270	300	180	600	1080
EKB800/180/300-1270	1270	300	180	800	1280
EKB1200/180/450-1270	1270	450	180	1200	1830

3D Fiberglass Fabrics



Features

- ★ Reduce products weight
- ★ Save working time
- ★ Superior and reliable performance
- ★ Simpler moulding process

Technical Data



Item	Thickness	Width	Weight	Meridional breaking strength	Zonal breaking strength
Thickness-Width	mm	mm	g/m ²	N/5CM	N/5CM
RG4-1270	4	1270	1090	2522	2348
RG5-1270	5	1270	1140	2184	2042
RG8-1000	8	1000	1180	8652	4305
RG10-1000	10	1000	1190	9867	5223
RG15-1000	15	1000	1380	8424	5316
RG20-900	20	900	2010	9712	5878
RG25-900	25	900	2300	7578	3831
RG30-1000	30	1000	2600	5698	5606

Note: The final core thickness may vary depending on the thickness difference of the 3D cloth, the type of resin, the compounding and lamination process, and the working environment conditions. The values listed are average values.

Vacuum Pump System

GSV-100 Vacuum Pump



Item	Physical Parameters
Model	GSV-100 Vacuum Pump System
Main Pump	leybold SV100B
Rated airflow	100 m ³ /h
Ultimate pressure	≤0.5 mbar
Nominal motor rating	2.2 KW
Powder supply	380V 3-Phase 4-Wire
Buffer Tank Capacity	500L/600L

GSV-200 Vacuum Pump



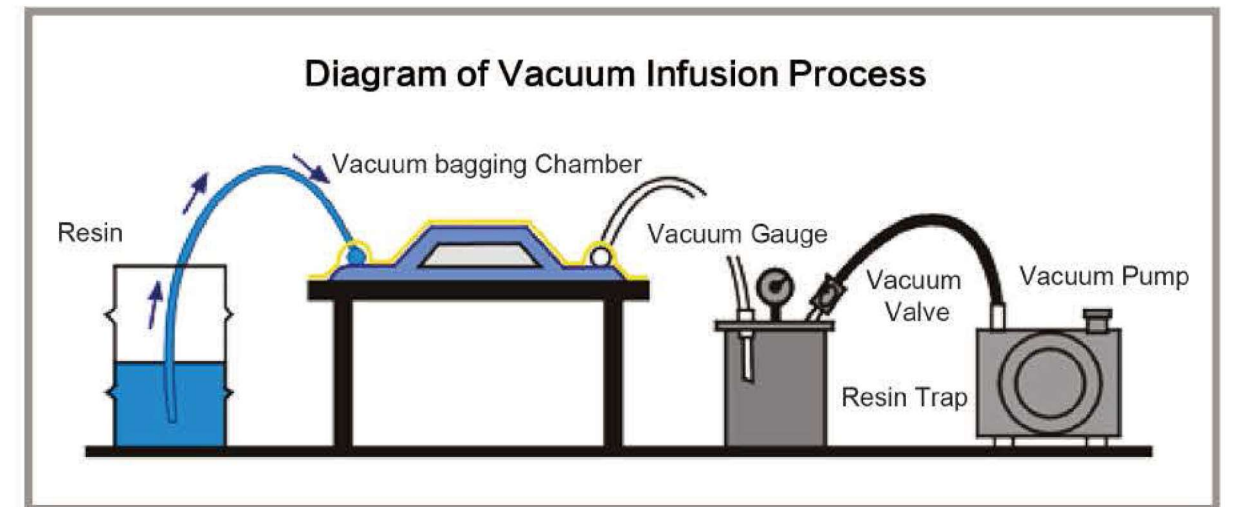
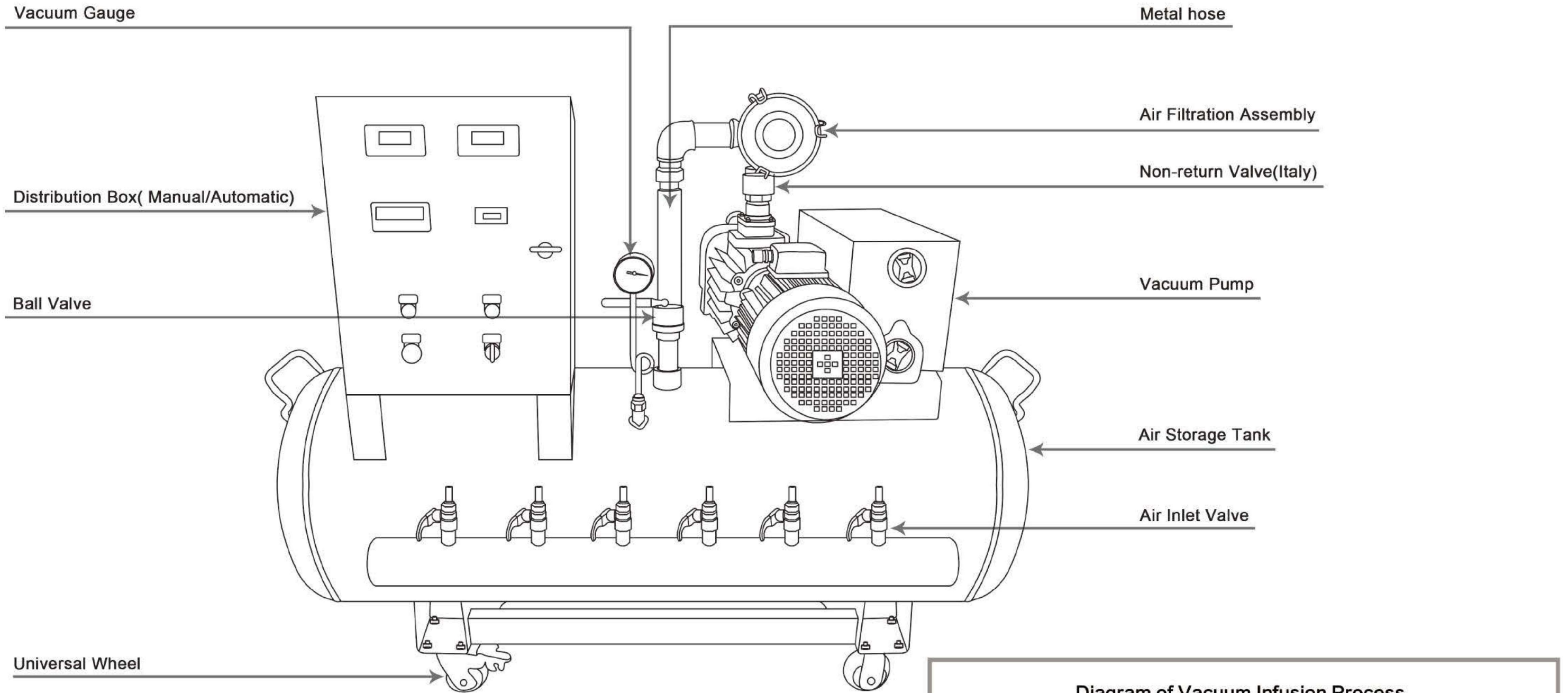
Item	Physical Parameters
Model	GSV2-100 Vacuum Pump System
Main Pump	leybold SV100B 2 Sets
Rated airflow	200 m ³ /h
Ultimate pressure	≤0.5 mbar
Nominal motor rating	2.2 KW*2
Powder supply	380V 3-Phase 4-Wire
Buffer Tank Capacity	500L/600L

Resin Trap/Reservoir



Item	Physical Parameters
Capacity	10L 20L
Interface	2 Pumping air holes
	3 Air inlet holes(Customized)
Vacuum Gauge	1 Standard vacuum gauge

Vacuum Pump Assembly



Other Products

Stoner Honey Wax 250

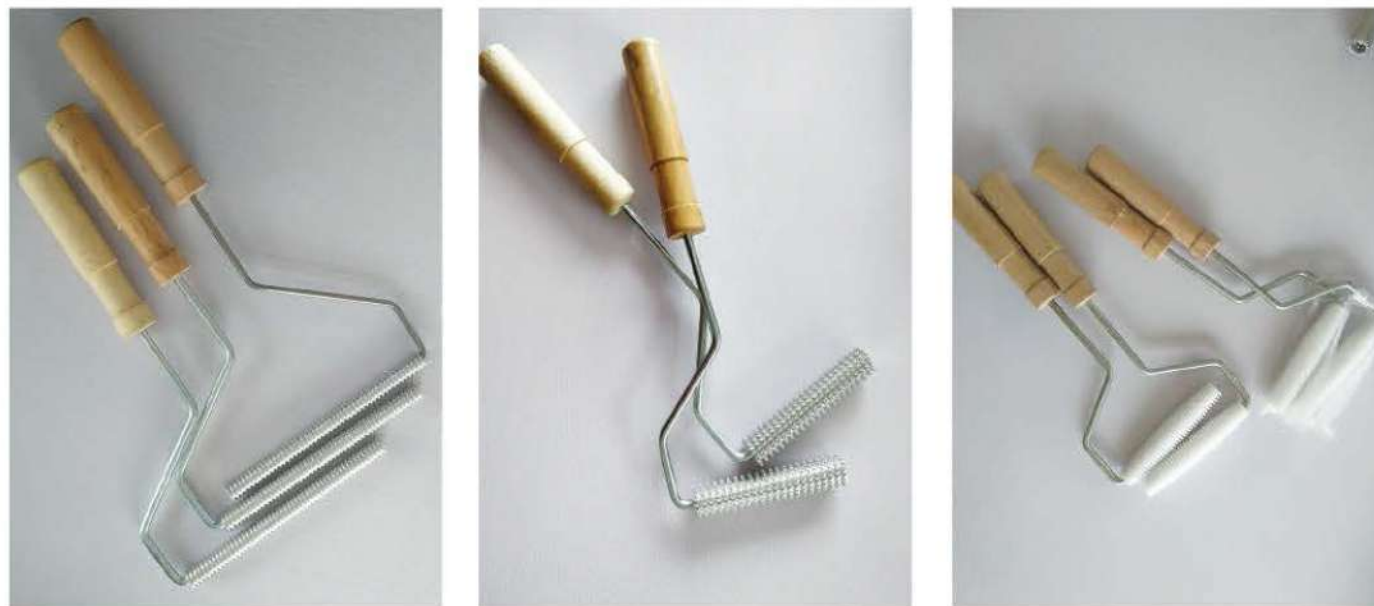


Item	Main Ingredients	Weight
Wax-250	Palm wax	311g/can

Features

1. Time-saving: no wax scale is produced during the process of mold and product during the process of mold and product use, which reduces the processing time of wax scale and improves the production efficiency;
2. Labor saving: simple operation, reducing the follow-up processing of labor force, make it easier for workers;
3. Save money: extend the lifespan of the mold, reduce the overall cost.

FRP Laminating Tools



Fumed Silica

CAB-O-SIL M5 (8010-00-060-3253, 8010000603253) untreated fumed silica is a synthetic, amorphous, colloidal silicon dioxide that is generally regarded as unique in industry because of its unusual particle characteristics. CAB-O-SIL fumed silica's has extremely small particle size with a high purity. It is commonly used for filler.

1 Ea = (1) 10lb bags



AEROSIL® 200 is a hydrophilic fumed silica with a specific surface area of 200 m²/g Rheology and thixotropy control of liquid systems, binders, polymers, etc. Used as anti-settling, thickening and anti-sagging agent Reinforcement of HTV- and RTV-2K silicone rubber Improvement of free flow and anticaking characteristics of powders

