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Product Catalog



Main Products

Peel ply *made by PET/PA6/PA66*
Flow mesh *combined mesh (2 in 1 & 3 in 1)*
Vacuum bagging film *co-extruded & casting film*
Release film *perforated and unperforated*
Breather&bleeder
Semi-permeable membrane

Company Profile

Shanghai Southern Wind Composite Materials Co., Ltd. is an international company established under the holding of Wujiang Nanfang Chemical Fiber Weaving Factory. Southern Wind focuses on serving global customers and specializes in export business. As a subsidiary of Nanfang Chemical Fiber, Southern Wind leverages its parent company's extensive expertise in the composite materials industry and the advantages of being a source factory, committed to providing high-quality composite materials products and solutions to customers.

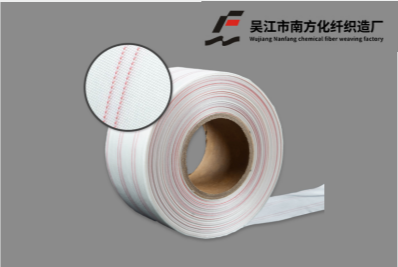
Wujiang Nanfang Chemical Fiber Factory was established in 2003 and is located in Shengze Town, Wujiang District, Suzhou City, Jiangsu Province, in the core area of the Yangtze River Delta. The factory covers an area of 36,000 square meters and is equipped with full-process production facilities, enabling all production procedures to be completed on-site. Every product manufactured by the company adheres to relevant industry standards and has gained widespread recognition from customers. The company is an innovative enterprise engaged in the research, development, production, and sales of composite materials for vacuum infusion. It has obtained ISO9001 and ISO14001 certifications. Its product range includes Peel ply, infusion mesh, vacuum bagging film, release film, breather & bleeder, semi-permeable membrane. These products primarily serve industries such as aerospace, wind power, rail transportation, low-altitude economy, sports equipment, and autoclave-processed carbon fiber products. With strong independent R&D capabilities, comprehensive facilities, and a professional team specializing in technology development, production, sales, and after-sales service, the company ensures it meets customer needs effectively.

Product Catalog

Peel ply

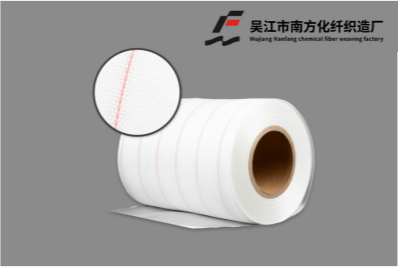
Peelply is a high-strength plain weave fabric, incorporating red or blue tracer threads. This product boasts high strength and undergoes washing and heat setting processes, resulting in a clean and uncontaminated surface with excellent release properties. It does not contaminate composite components during use and is easily identifiable. The fabric provides a ready-to-use rough surface, eliminating the need for sanding, and facilitates subsequent bonding or painting processes. It is widely used in vacuum forming and pultrusion molding techniques.

Product	Component	weight (g/m ²)	TS at Warp N	TS at Weft N	Max using Temp°C	Width (m)
PET peel ply	PET	85±5/95±5	> 1000	> 900	180	0.05-1.8
Nylon peel ply	PA6	85±5/105±5	> 1000/1500	> 900/1200	210	0.05-1.8
Nylon peel ply	PA66	85±5/105±5	> 1000/1500	> 900/1200	230	0.05-1.8
Teflon peel ply	GF+PTFE	48±3-852±3	> 650-6000	> 550-5000	260	0.1-1.3



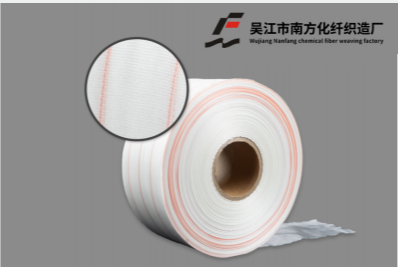
PA 6 6 Peelply

Max using temperature: 230°C
Component: PA66
Width: 0.06-1.8M
Weight: 85-105 (g/m²)
Color: white, with red or blue tracer yarn
Application: Infusion process



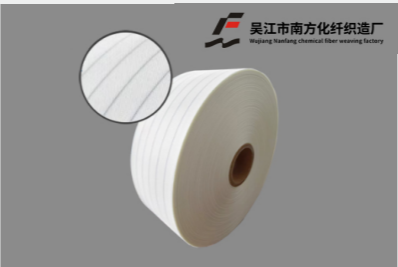
PA 6 Peelply

Max using temperature: 210°C
Component: PA6
Width: 0.06-1.8M
Weight: 85-105 (g/m²)
Color: white, with red or blue tracer yarn
Application: Infusion process



PET Peelply

Max using temperature: 190°C
Component: PET
Width: 0.06-1.8M
Weight: 85-105 (g/m²)
Color: white, with red or blue tracer yarn
Application: Infusion process

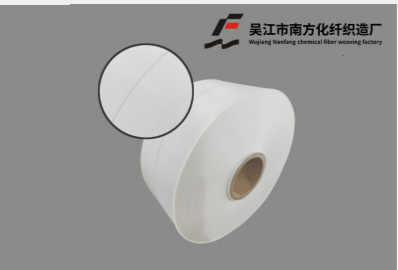


Peelply for carbon fiber spar cap

Max using temperature: 230°C
Component: PA66
Width: 0.06-1.8M
Weight: 85-105 (g/m²)
Color: white, with red or blue tracer yarn
Application: Pultrusion process

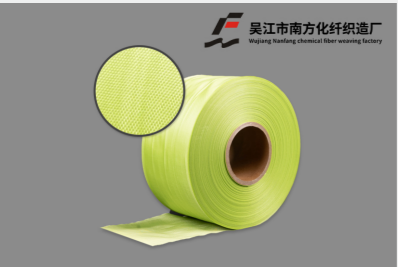


■ PEEL PLY



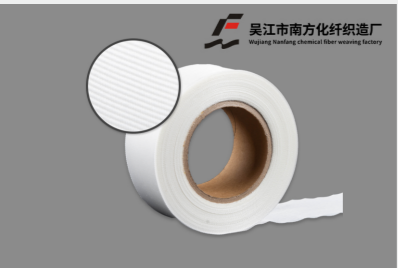
Peelply for glass fiber spar cap

Max using temperature: 230°C
Component: PA66
Color: white, with red or blue tracer yarn
Width: 0.06-1.8M
Application: Pultrusion process
Weight: 85-105 (g/m²)



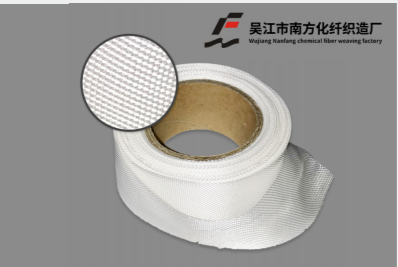
Peelply for glass fiber pultrusion

Max using temperature: 230°C
Component: PA66
Color: Green
Width: 0.06-1.8M
Weight: 85-105 (g/m²)



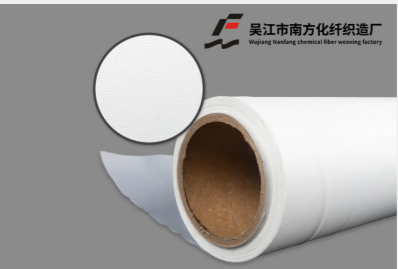
Peelply for spirial tubes

Max using temperature: 190°C
Component: PET
Color: White
Width: 0.06-1.8M
Application: Vacuum infusion
Weight: 150 (g/m²)



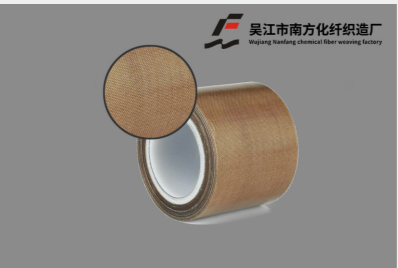
Peelply with coarse texture

Max using temperature: 190°C
Component: PET
Color: White
Width: 0.06-1.8M
Application: Vacuum infusion
Weight: 250 (g/m²)



Peelply for carbon fiber products

Max using temperature: 230°C
Component: PA66
Color: White
Width: 0.06-1.8M
Weight: 50-105 (g/m²)



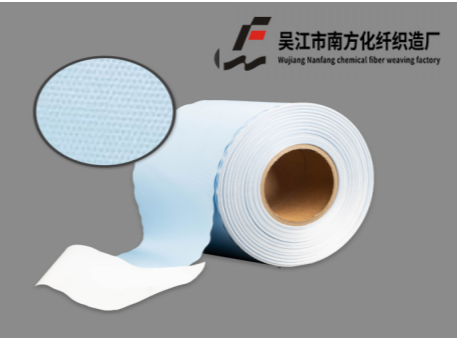
TEFLON Peelply

Max using temperature: 260°C
Component: GF+PT
Color: Brown
Width: ≤ 1.3M

■ Semi-permeable membrane

Semi-permeable membrane is a kind of material can let air & VOC go through but prevent resin come out. It is made by peel ply and semi-permeable layer, and can be used in vacuum infusion, prepreg vacuum bagging process. In order to get better release performance, the semi-permeable layer normally be put close to fiber lamination, and let peel ply side on the top to another side.

- Standard size: 1.47*100M/roll, ordinary width 1.47M, also can be customerized
- Caution: Must be well packaged with cool storage situation, avoid shine
- Benifit: Under vacuum situation, this membrane can keep the resin in parts but let the air and bubbles come out, that makes better machanical strength for final parts.

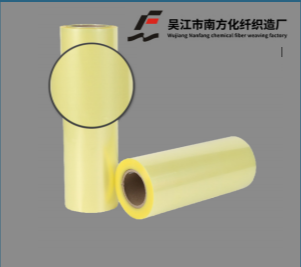


Max using tem: 150°C
Color: Blue/White
Yarn component: PA6/PET
Max using pressure: 14PSI
Weight: 125±5g/m²
Resin system: Epoxy and UPR

■ Vacuum bagging film

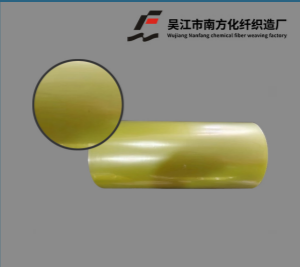
Vacuum bagging film is a kind of plastic film made by special machine sets, including raw materials extrusion, injection, film blowing, winding and cutting process. The film can be big tube form and also can be cut into sheet form. For high extension requirement, we provide co-extrussded film, and for high temperature resistance requirement we provide casting PA 66 film.

Film types	Componenet	Thickness (U)	LD Strength Mpa	WD Strength Mpa	Max using temp°C	Width (m)
Co-extruded	PA+PE+PA	50±5/65±5/75±5	≥40	≥40	150	≤12
Casting film	PA66	50±5/65±5	≥60	≥60	180	≤3
Casting film	PA66	50±5/65±5	≥60	≥60	204	≤3
Casting film	PA66	50±5/65±5	≥60	≥60	230	≤3



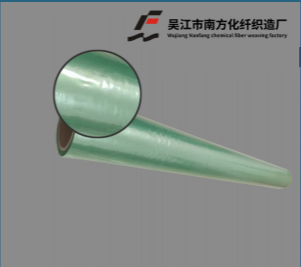
Co-extruded film

Structure: PA/PE/PA
Color: Yellow
Width: ≤ 12M
Max using temp: 150°C
Process: 5 layers co-extrution



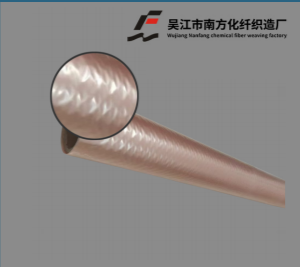
Casting film

Component: PA66
Color: Yellow
Width: ≤ 3M
Max using temp: 180°C
Process: casting



Casting film

Component: PA66
Color: Green
Width: ≤ 3M
Max using temp: 204°C
Process: casting



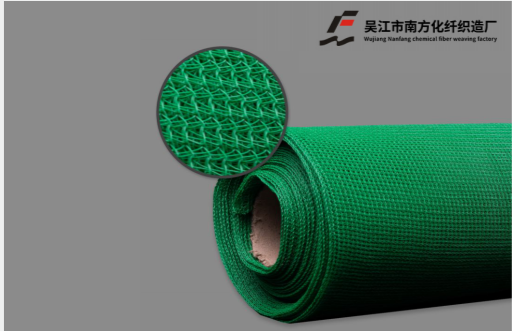
Casting film

Component: PA66
Color: Red
Width: ≤ 3M
Max using temp: 230°C
Process: casting

■ Infusion Mesh

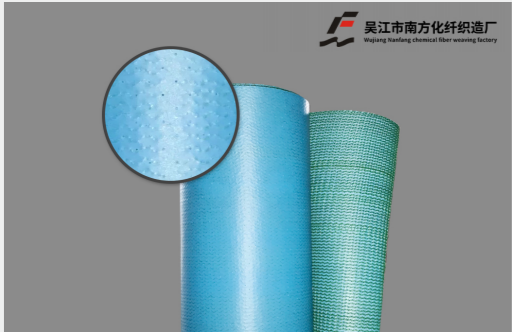
The mesh is made by high density PE/PP materials, with 3D weaving structure, it can provide very good resin & air flow and transmittion performance during vacuum infusion process. Infusion mesh can achieve high efficiency and high quality, and low cost.

Items	Value	Standard
Materials	PP/PE	FZ/T01057-2007
Weight (g/sqm)	145±10	GB/T4669-2008
Thickness (Um)	1050±50	ISO 5084:1996
Max using temp (°C)	120	--
Ordinary size: 1.8M*100M/roll, also can be customerized Caution: Need to be well packaged under cool and dry storage, prevent from high moisture		



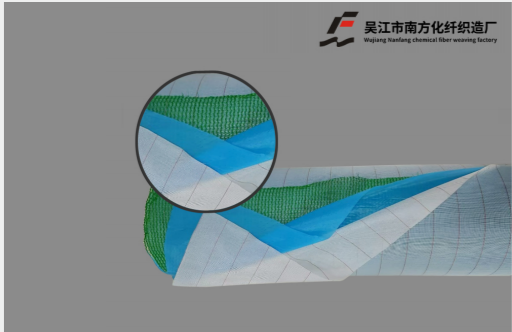
Infusion mesh

Component: PP/PE
Weight: 120-200g/m²
Width: 10-360cm
Color: Green, white, blue, yellow



2 in 1 combined mesh

Structure: PP/PE release film + infusion mesh
Weight: 165-245g/m²
Width: 10-360cm
Color: Green/white/blue/yellow insuion mesh + blue/red release film



3 in 1 combined mesh

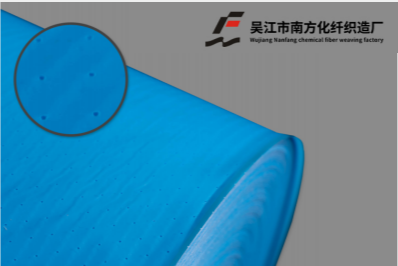
Structure: PP/PE release film + infusion mesh +release film
Weight: 250-350g/m²
Width: 10-360cm
Color: Green/white/blue/yellow infusion mesh+blue/red release film + white tracer yarn

■ Release film

Release film is a kind of copolymer film with high strength and elongation, it can contact most of the resins directly. It is widely used in vacuum bagging process. We can provide blue and red film with perforated and non-perforated film. The performance of release film may get infected by long term sunshine and air contact, so it need to be well packaged and sored..

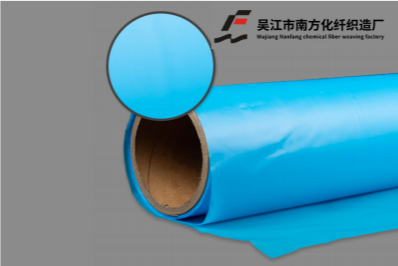
Items		PE	PP	Standards
Max using temp		< 120°C	< 150°C	GB/T 13767-1992
distance between holes (MM)		7.0±1.0	7.0±1.0	GB/T 4669-2008
diamiter of holes (MM)		0.7±0.2	0.7±0.2	GB/T 4669-2008
Color		Blue or red	Blue or red	PANTONE
Tensile strength (N)	WD Mpa±10%	≥20	≥20	GB/T3923.1-2013
	LD Mpa±10%	≥20	≥20	GB/T3923.1-2013
Elongation (N)	WD %	300±10%	300±10%	GB/T1040.3-2006
	LD %	300±10%	300±10%	GB/T1040.3-2006
Thickness UM		130±20	130±20	GB/T6672-2001
Width CM		≤160	≤160	GB/T4669-2008
Puncture resistance		1.2N	1.2N	BS EN ISO 13395-2001

Caution: Store in cool and dry place, avoid direct sunshine; Prevent from water, oil, acid, alkly and other substance which may infect the durability and stablity of the release film.



Perforated release film

Material: 100% PEmax using temp: 120°C
Color: blue/red
Pin holes: Yes
Thickness: 35-45U



non-perforated release film

Material: 100% PEMax using temp: 120°C
Color: blue/red
Pin holes: None
Thickness: 35-45 U



High temperature resistance release film

Material: 100% PPMax using temp: 160°C
Color: blue/red
Pin holes: None
Thickness: 35-45 U