

Uni-Seals Product Catalog

Category: Coated Fabric



UNI-SEALS

Unimax International Limited

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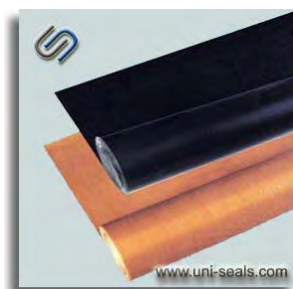
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PTFE Coated Fiberglass Cloth

**CL4760 PTFE coated fiberglass cloth**

With high quality imported fiberglass as raw material, the superior fiberglass cloth is woven by plain, twill, satin or other weaving method, then thoroughly impregnated and coated with fine PTFE resin.

Characteristics:

Stable dimension, high intensity, elongation coefficient less than 5%.

Good temperature resistance, continuous working temperature at -70°C~260°C.

Low friction coefficient, good insulating property.

Non-stick, easy to clear adhesives and stains on the surface.

Good chemical resistance. It can resist most of the chemicals, acids and alkalis.

It is fireproof and aging resistant.

Application:

Used as high temperature resistant pad, such as microwave pad, oven pad, etc.

Used as non stick pad or cloth.

Used as conveyer belts, fusing belts, sealing belts or where it requires high temperature resisting, non-stick, chemical resistance etc.

Used as covering or wrapping material in petrochemical industries, as wrapping material, insulating material, high temperature resistance material in electrical industries, and as desulfurizing material in power plant etc.

Specification:

Thickness	Maximum width	Color	Tensile strength	Temperature
0.08mm	1250mm	brown	120~130N/cm	-140°C~260°C
0.08mm	1250mm	black	120~130N/cm	-140°C~260°C
0.13mm	1250mm	brown	190~220N/cm	-140°C~260°C
0.13mm	1250mm	black	190~220N/cm	-140°C~260°C
0.18mm	1250mm	brown	250~330N/cm	-140°C~260°C
0.18mm	1250mm	black	250~330N/cm	-140°C~260°C
0.25mm	1250mm	brown	330~410N/cm	-140°C~260°C
0.25mm	1250mm	black	330~410N/cm	-140°C~260°C
0.35mm	2800mm	brown	445~560N/cm	-140°C~260°C
0.35mm	2800mm	black	445~560N/cm	-140°C~260°C
0.40mm	2800mm	brown	500~820N/cm	-140°C~260°C
0.40mm	2800mm	black	500~820N/cm	-140°C~260°C
0.65mm	2800mm	brown	750~1080N/cm	-140°C~260°C
0.90mm	2800mm	brown	1250~1500N/cm	-140°C~260°C
0.90mm	2800mm	black	1250~1500N/cm	-140°C~260°C

PTFE Coated Fiberglass Cloth with Adhesive



CL4767 PTFE coated fiberglass cloth with adhesive

It is made from woven fiberglass cloth which has been coated with PTFE, and manufactured in a self-adhesive form to maximize ease of application. The product has excellent dimensional stability, tensile strength, durability, chemical resistance, high temperature resistance and insulating properties.

TA4767 PTFE coated fiberglass tape with adhesive

It is with smaller width compared with CL4767 cloth.

Application:

Widely used in packaging, thermoplastic, laminating, heat sealing and electrical industries. It is reusable and easy-to-install.

Specification:

Thickness*	Maximum width	Adhesive strength (to steel)	Strip strength	Temperature
0.08mm	1250mm	22N/100mm	900N/100mm	-70°C~260°C
0.13mm	1250mm	28N/100mm	1700N/100mm	-70°C~260°C
0.18mm	1250mm	48N/100mm	2750N/100mm	-70°C~260°C
0.25mm	1250mm	62N/100mm	3650N/100mm	-70°C~260°C

* The mentioned data are the net thickness of the base cloth/tape, not including the thickness of the adhesive layer.

PTFE Coated Mesh Cloth**MC4760 PTFE coated fiberglass mesh cloth**

It is made from selected fine fiberglass as basic weaving material, woven with advanced imported weaving machine, and then coated with excellent PTFE resin.

MC4771 PTFE coated Kevlar mesh cloth

The basic weaving material is Kevlar.

Smaller width belts are also available on request (style number: MB4760, MB4771).

Characteristics:

Good temperature resistance. It can continuously work under temperature of -140°C to 260°C.

Good air permeability. It helps to avoid heat wasting and improve drying efficiency.

Excellent chemical resistance. It can resist most of the chemical mediums and solvents.

Fine adherence resistance. Most of adhesives such as resins, paints and chemicals can easily be removed and cleaned.

High tensile strength and excellent flex fatigue resistance. It can be suited for small wheels.

Application:

Our PTFE mesh cloth and belt products are widely used in the following applications:

Drying machine for non-woven textile, textile printing, screen printing and dyeing machine.

Shrinking machine for garment fabric, high-frequency and UV dryer.

Conveyer belt for hot-air dryer, various food baking, quick-frozen machines.

Oiling machine for paper glazing and waxing, plant engineering.

Separating sheet for hardboard production etc.

Specification:

Basic material	Grid size	Thickness	Width	Tensile strength	Temperature
Fiberglass	1x1mm	0.5mm	4000mm	290~310N/cm	-70°C~260°C
Fiberglass	2x2mm	0.7mm	4000mm	310~350N/cm	-70°C~260°C
Fiberglass	4x4mm	1.0mm	4000mm	320~390N/cm	-70°C~260°C
Fiberglass	4x4mm	1.0mm	4000mm	320~390N/cm	-70°C~260°C
Kevlar	4x4mm	1.2mm	4000mm	370~895N/cm	-70°C~260°C
Fiberglass	4x4mm	1.0mm	4000mm	370~395N/cm	-70°C~260°C
Fiberglass	4x4mm	1.0mm	4000mm	600~900N/cm	-70°C~260°C
Fiberglass	4x4mm	1.0mm	4000mm	370~395N/cm	-70°C~260°C
Fiberglass	10x10mm	1.2mm	4000mm	300~360N/cm	-70°C~260°C
Fiberglass	0.5x1mm	0.5mm	4000mm	290~310N/cm	-70°C~260°C
Fiberglass	2x2.5mm	0.9mm	3000mm	320~390N/cm	-70°C~260°C

PTFE Coated Kevlar Cloth

Kevlar yarn has many excellent properties like light weight, high strength, tough, high temperature and corrosion resistant, no smoke or poison released when burning etc.

CL4771 PTFE coated Kevlar cloth

The cloth is woven from high quality imported Kevlar and coated with fine PTFE resin. It has many excellent features such as non-stick, good chemical resistance and high temperature resistance, and great intensity compared with normal fiberglass cloth.

Application:

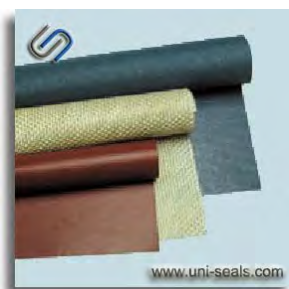
Used in high temperature drying process in printing and dyeing industry, for making conveyer belts, protective gloves, bullet-proof vest etc.

Dimension:

Maximum width: 4100mm.

Thickness: 0.18~1.5mm.

Silicone Rubber Coated Fiberglass Cloth



CL5660 Silicone rubber coated fiberglass cloth

It is made from fine fiberglass yarn with excellent capacity of high temperature and corrosion resistance, impregnated or coated with silicone rubber. It is a high-performance product suitable for multiple applications.

Characteristics:

Good temperature resistance, it can continuously work under temperature between -70°C – 230°C .

Good resistance to ozone, oxygen, sunlight and aging, with long using life up to 10 years.

Good electric insulation property, with dielectric constant at 3–3.2, and break down voltage between 20–50KV/mm.

Good elasticity and pliability.

Application:

Electric insulation: used for making insulation cloth and insulation sleeves etc.

Non-metallic compensator: used as flexible coupling for pipeline, helps to avoid damage caused by heat expansion and cold contraction. It is widely used in industries of petroleum, chemical, cement, and energy etc.

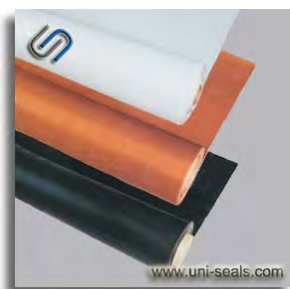
Anticorrosion material: It is good to be used as inner and outer anticorrosion layer for piping etc. It is proved to be an ideal anti-corrosion material, with its excellent corrosion resistance, temperature resistance and high strength properties.

The cloth can also be used as sealing material, temperature resistant and anticorrosion conveyer belt, and packaging material.

Specification:

Thickness	Maximum width	Tensile strength	Bursting strength	Combustible content
0.13mm	1250mm	1200–1500N/5cm	2.0Mpa	$\leq 25\%$
0.25mm	1250mm	1500–1800N/5cm	2.1Mpa	$\leq 25\%$
0.40mm	1250mm	1600–2000N/5cm	2.2Mpa	$\leq 25\%$
0.50mm	1250mm	1800–2200N/5cm	2.3Mpa	$\leq 25\%$
0.60mm	1250mm	2200–2400N/5cm	2.4Mpa	$\leq 25\%$
0.70mm	1250mm	2300–2500N/5cm	2.4Mpa	$\leq 25\%$
0.80mm	1250mm	2400–2600N/5cm	2.5Mpa	$\leq 25\%$
0.90mm	1250mm	2600–2800N/5cm	2.5Mpa	$\leq 25\%$
1.00mm	1250mm	2800–3000N/5cm	2.6Mpa	$\leq 25\%$
1.20mm	1250mm	3000–3400N/5cm	2.5Mpa	$\leq 25\%$
1.50mm	1250mm	3300–3700N/5cm	2.3Mpa	$\leq 25\%$
2.00mm	1250mm	3800–4200N/5cm	2.2Mpa	$\leq 25\%$

Fluorine Rubber Coated Fiberglass Cloth



CL5760 Fluorine rubber coated fiberglass cloth

Fluorine rubber is a new style high temperature resistant, corrosion resistant macromolecular elastomer. The fiberglass cloth coated with fluorine rubber is a new kind of composite material with wide applications.

Fluorine rubber fiberglass cloth has a good temperature resistance up to 300°C. It can resist all kinds of lube, fuel and greases under high temperature condition. It also has good chemical corrosion resistance and weatherability. The material has been widely used in industries of aviation, chemical, power and so on.

Specification:

Thickness	Maximum width	Tensile strength	Combustible content
0.30mm	1250mm	1400~1800N/5cm	≤25%
0.60mm	1250mm	2400~2600N/5cm	≤25%
1.00mm	1250mm	2800~3200N/5cm	≤25%
1.50mm	1250mm	3300~3800N/5cm	≤25%
2.00mm	1250mm	3600~4200N/5cm	≤25%

Coated Architectural Membrane



PTFE or silicone coated or laminated architectural membrane is widely used for roofing structures because of their special features, such as high strength and durability, good flame retardancy and UV resistance, high pervious to light, low heat absorption, good self-cleaning property, and long using life which could be up to 25 years. Architectural membrane material has been frequently used in public building projects, such as gymnasium roof, airport hall, center of exhibition, and platform etc.

ME4760 PTFE coated fiberglass architectural membrane

It is made from selected fine fiberglass as basic weaving material, and then coated with excellent PTFE resin.

Thickness	Maximum width	Weight	Stripping strength	Tensile strength	Solar reflection	Solar transmission	Temperature resistance
0.7mm	4000mm	1200g/m ²	6000N/5cm	500~550N/cm	71%	9 (±2)	-140°C~260°C
0.9mm	4000mm	1600g/m ²	7800N/5cm	700~980N/cm	71%	8 (±2)	-140°C~260°C

ME4771 PTFE coated Kevlar architectural membrane

It is made from selected fine Kevlar as basic weaving material, and then coated with excellent PTFE resin.

Thickness	Maximum width	Weight	Stripping strength	Tensile strength	Solar reflection	Solar transmission	Temperature resistance
0.7mm	4000mm	960g/m ²	7200N/5cm	590~640N/cm	71%	9 (±2)	-140°C~260°C
0.9mm	4000mm	1350g/m ²	9300N/5cm	800~1150N/cm	71%	8 (±2)	-140°C~260°C

ME5660 Silicone coated fiberglass architectural membrane

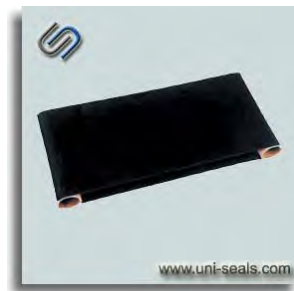
It is made from selected fine fiberglass as basic weaving material, and then coated with excellent silicone resin.

Thickness	Maximum width	Weight	Stripping strength	Tensile strength	Solar reflection	Solar transmission	Temperature resistance
0.7mm	4000mm	1050g/m ²	5500N/5cm	480~520N/cm	68%	11 (±2)	-140°C~260°C
0.9mm	4000mm	1450g/m ²	7200N/5cm	650~940N/cm	68%	10 (±2)	-140°C~260°C

ME5671 Silicone coated Kevlar architectural membrane

It is made from selected fine Kevlar as basic weaving material, and then coated with excellent silicone resin.

Thickness	Maximum width	Weight	Stripping strength	Tensile strength	Solar reflection	Solar transmission	Temperature resistance
0.7mm	4000mm	1100g/m ²	7000N/5cm	580~620N/cm	68%	11 (±2)	-140°C~260°C
0.9mm	4000mm	1400g/m ²	9000N/5cm	780~1020N/cm	68%	10 (±2)	-140°C~260°C

PTFE Coated Fusing Machine Belt**BE4760 PTFE coated fiberglass seamless fusing machine belt**

The belt is made of high tensile strength fiberglass, knitted by special equipment and coated with fine PTFE resin. The seamless belt overcomes the shortcomings of traditional joint fusing machine belt such as low stability, ruptures and deflecting at the joint due to different girth on two sides. The serve life of seamless fusing machine belts is much longer than that of joint fusing machine belts by at least 3 times.

BE4771 PTFE coated Kevlar seamless fusing machine belt is also available on request.

Characteristics:

- Smooth surface.
- High temperature resistant and adherence resistant properties.
- Good tensile strength.
- Good deflecting preventing capacity.
- Excellent antistatic capability.
- Flex fatigue resistance, durable, and long using life.

Economic fusing machine belts with joint are also available on request (style number: BE4763, BE4773)

Two-ply fusing machine belt is also available on request (Style number: BE47**T).

With antistatic varnished cloth inside and tearing resistant fiberglass cloth outside, the two-ply belt has a great improvement on its intensity. It has smooth surface and even thickness, excellent deflecting preventing capacity, and long using life.

**Note:**

1. All technical details quoted throughout this catalogue are based on our extensive tests and years of experience, however, they can only serve as guide values. Your specific application should not be undertaken without independent study and evaluation for suitability. Failure to select proper products and specifications could result in property damage and/or personal injury.
2. Technical details subject to change without notice. This edition cancels all previous issues.

UN-CTLG-CF-090701