



CHEMFAB®

NON-STICK SOLUTIONS



SAINT-GOBAIN

PERFORMANCE PLASTICS



The world of Saint-Gobain

SAINT-GOBAIN is a worldwide leader in many fields from flat glass to construction products, abrasives to glass yarns and is also proud to have **CHEMFAB® NON-STICK SOLUTIONS** as one of its leading brands within the Performance Plastics group. **CHEMFAB® NON-STICK SOLUTIONS** comprises an extensive range of PTFE fabrics and silicone fabrics.

These products are used widely in industries such as Food, Plastics, Polymer Processing, Packaging and Textiles. They are also used in various components and equipment due to their easy slide bearing surfaces and electrical insulation properties.

This brochure focuses on the products used for processing applications; however, the full product range is much larger and includes **SHEERFILL®** architectural membranes, **FLUEFLEX®** expansion joint fabrics and **ONESuite®** chemical barrier clothing.

With global manufacturing and an extensive distribution network, Saint-Gobain Performance Plastics offers the solutions to your non-stick requirements and the service and reliability demanded today.

This success is based on our enduring commitment to excel based on:

Customer Satisfaction

- 350 years in business and still growing!
- >99.5% customer satisfaction level as measured by complaint credits
- Continuous business growth >3.4% average over last 5 years

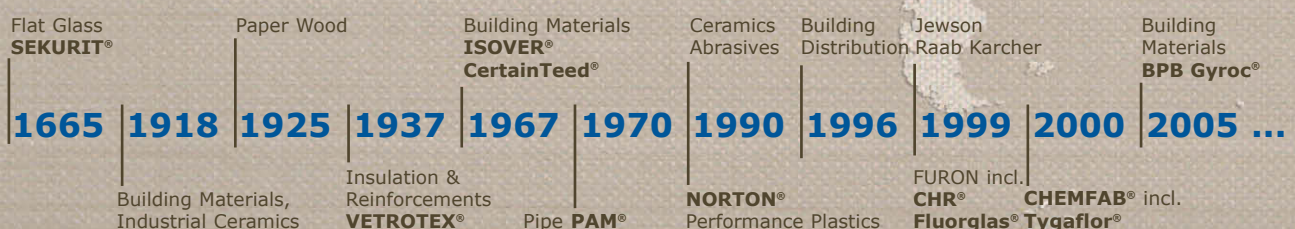
Innovation

- 3.5% of annual sales is invested in R&D each year
- 20% of sales result from new products developed in last 5 years
- Saint-Gobain files 260 new patents on average each year

Operational Excellence

- Manufacturing sites in Europe, USA, South America & China as well as over 10 separate sales, logistics and fabrication units globally
- Largest processor of PTFE and woven fabrics with over 7.5 million square meters coated annually
- >50 years in fluoropolymer coating, lamination and fabrication

History





Choose the fittest!

CHEMFAB® NON-STICK SOLUTIONS are the result of pioneering work to develop high-temperature, chemically-resistant, flexible advanced materials. We support our customers with in-house technical capabilities that are unmatched in the industry. Our research staff conduct extensive studies in composites and reinforcements, cast films, coatings, laminates and fabrication techniques. Pilot plant and scale-up facilities are available to prototype your material.



Surface properties

The unique non-stick properties of CHEMFAB® PTFE-coated fabrics are superior to all other polymer-coated materials. CHEMFAB® PTFE-coated fabrics have a very low coefficient of friction, high lubricity and are easy to clean. These properties are best illustrated by the frequent use of cooking release sheets in the baking and food processing industries. The non-stick nature of CHEMFAB® PTFE surfaces is the main reason for their use in a range of applications from heat sealing packaging machines to industrial food processing.

- Non-stick and washable
- Lowest coefficient of friction
- Controlled porosity/openings
- Food-compliant & hygienic
- Hydrophobic



Resistance properties

CHEMFAB® PTFE fabrics are inert against most chemicals and solvents. They retain their stability and properties at continuous operating temperatures from -150°C to +260°C. If non-flammability or fire resistance is required, CHEMFAB® PTFE fabrics are the solution for many applications.

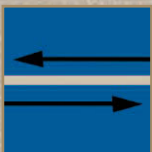
- Thermally stable from -150°C to 260°C
- Non-flammable/fire-resistant
- Increased wear & void-free versions available
- Chemically inert
- UV and weather resistant



Electrical properties

Due to the high dielectric strength and low dielectric constant, CHEMFAB® PTFE fabrics are often the ideal solution for electrical insulation. Due to their transparency to radio frequency signals and low electrical loss factors, CHEMFAB® PTFE fabrics provide exceptional performance in microwave and other RF curing/drying applications.

- High dielectric strength
- Low electrical losses
- Microwave-transparent
- Statically dissipative



Mechanical properties

CHEMFAB® PTFE process conveyor belts offer the benefits of CHEMFAB® NON-STICK SOLUTIONS including improved penetration resistance, increased mechanical strength and durable release. CHEMFAB® belts are very flexible and compatible with most heating systems including IR, UV and RF. CHEMFAB® PTFE fabrics can be fabricated into endless belts with virtually no thickness increase and high-strength splice constructions.

- High tensile and tear strength
- Puncture-resistant
- Excellent heat transfer
- Dimensionally stable
- Flexible, thermally weldable



Grilling - fat-free



Factory food processing



Baking - Toasting - Cooking

Longer life times mean higher productivity and lower cost, ...



CF203

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CF203 is the most popular and widely used thin PTFE-coated glass fabric. It provides good release properties for a wide range of applications. It is typically used as a non-stick surface in baking sheet applications and heat sealing packaging machines.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	130
Thickness	(mm)	0.070
Tensile Strength	(N/cm)	180 x 140
Trap Tear Strength	(N)	13 x 10
PTFE Content	(%)	63
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	1000, 1525, 2000

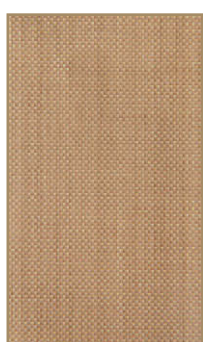


CF103

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CF103 is characterized by a highly consolidated PTFE coating and smooth surface, which results in excellent non-stick and electrical insulation properties. Typical applications include coil and phase insulation on motors, baking release sheets and packaging machines.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	155
Thickness	(mm)	0.075
Tensile Strength	(N/cm)	180 x 140
Trap Tear Strength	(N)	10 x 8
PTFE Content	(%)	69
Temperature Resistance	(°C)	-150 to +260
Dielectric Strength	(kV)	3.8
Standard Widths	(mm)	1000



CF205

| T | A | 3 | 4 | A3 | ■ ■ ■ ■ ■

CF205 is the most widely used PTFE-coated glass fabric and is a versatile and robust release sheet material. It is typically used for non-stick applications in packaging and plastics as well as for baking and cooking release sheets or as an "easy-glide" surface for other industries.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	250
Thickness	(mm)	0.120
Tensile Strength	(N/cm)	290 x 260
Trap Tear Strength	(N)	20 x 18
PTFE Content	(%)	58
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	1000, 1020, 1525, 2000



CF206

| A | 3 | A3 | ■ ■ ■ ■ ■

CF206 is a highly consolidated PTFE-coated glass fabric with an extra glossy and smooth non-stick surface. It is typically used as a release sheet for covering PVC welding platens or on heat sealing packaging equipment as well as a non-stick covering for dryer cylinders.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	300
Thickness	(mm)	0.140
Tensile Strength	(N/cm)	310 x 260
Trap Tear Strength	(N)	20 x 18
PTFE Content	(%)	65
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	1010, 1250, 1525

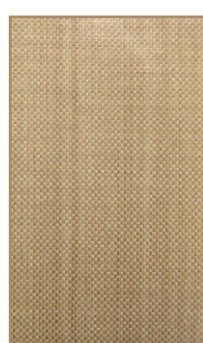


CF310

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CF310 is one of the most popular PTFE-coated glass fabrics due to its combination of non-stick release properties and mechanical strength. It is typically used as a release sheet in heat sealing/packaging applications, a conveyor belt for plastic processing or a barrier membrane in chemical processes.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	470
Thickness	(mm)	0.225
Tensile Strength	(N/cm)	520 x 410
Trap Tear Strength	(N)	40 x 32
PTFE Content	(%)	56
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	1000, 1250, 1525



CS205 S

| A | 3 | 4 | A3 | ■ ■ ■ ■ ■

CS205 S is the most popular and versatile PTFE-coated glass fabric with a high-temperature resistant silicone adhesive on one side. It is used primarily in the packaging industry for covering heating elements and wires as well as for roll protection of machines in the paper/plastic processing industries.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	250
Total Thickness	(mm)	0.165
Adhesive	Type	Silicone
Adhesion Strength	(N/cm)	6.2
Trap Tear Strength	(N)	20 x 18
Temperature Resistance	(°C)	-73 to +260
Standard Widths	(mm)	1000



CF410

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CF410 is a PTFE-coated glass fabric with a low coating weight; however, the fabric is still fully encapsulated by PTFE and offers good non-stick properties. It is typically used in packaging and release sheet applications where frequent replacement is the norm.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	420
Thickness	(mm)	0.205
Tensile Strength	(N/cm)	450 x 400
Trap Tear Strength	(N)	35 x 30
PTFE Content	(%)	51
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	1000, 1250, 1525



CS310 S

| A | 3 | A3 | ■ ■ ■ ■ ■

CS310 S is a high-strength, smooth PTFE-coated glass fabric with a high-temperature resistant silicone adhesive on one side. It is used to cover heating elements in the packaging industry but also as an easily replaced non-stick surface in the plastics/polymer processing industries.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	470
Total Thickness	(mm)	0.270
Adhesive	Type	Silicone
Adhesion Strength	(N/cm)	7.5
Trap Tear Strength	(N)	40 x 32
Temperature Resistance	(°C)	-73 to +260
Standard Widths	(mm)	1000



Rubber profile curing

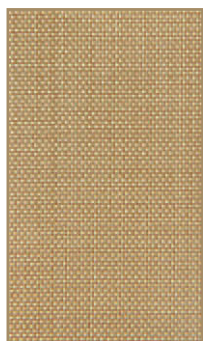


PVC welding



Carpet tile casting

... crack and pin-hole free surfaces mean better release and no penetration ...



CL F300 CHEMLAM®

CL F300 is a multilayer PTFE-film laminated glass fabric. It provides excellent barrier and non-stick performance. CL F300 is particularly suited as a release sheet in aggressive food processing applications such as grilling, baking and toasting with regular thermal cycling and "sticky" ingredients.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	205
Thickness	(mm)	0.110
Tensile Strength	(N/cm)	190 x 130
Trap Tear Strength	(N)	14 x 9
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	1000



CF106-2 AS

CF106-2 AS is a PTFE-coated glass fabric with a smooth and anti-static surface. It is typically used in processing applications requiring excellent release and non-stick properties and where dissipation of any electrical static build-up is important.

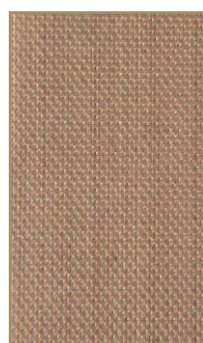
TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	315
Thickness	(mm)	0.150
Tensile Strength	(N/cm)	300 x 300
Trap Tear Strength	(N)	15 x 15
Temperature Resistance	(°C)	-150 to +260
Surface Resistivity	(Ω-square)	1 x 10 ⁹
Standard Widths	(mm)	1000



CL 6 GX CHEMLAM®

CL 6 GX is a multilayer PTFE-film laminated glass fabric. It is smooth and has a crack-free non-stick surface. It is typically used as platen covers for PVC welding and provides better and more durable performance than all other traditional coated release fabrics.

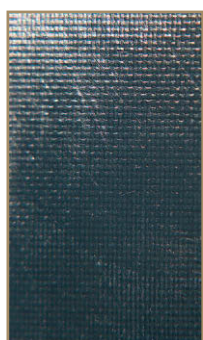
TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	325
Thickness	(mm)	0.160
Tensile Strength	(N/cm)	280 x 260
Trap Tear Strength	(N)	18 x 15
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	1010



CF110-1

CF110-1 is a very smooth PTFE-coated glass fabric which provides excellent release properties and dimensional stability. Typical applications include conveyor belting, release sheets for laminate manufacturing and polymer processing. CF110-1 is also used for electrical insulation.

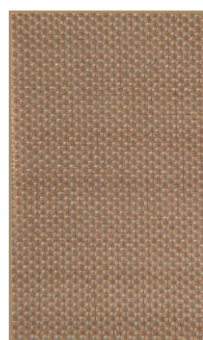
TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	540
Thickness	(mm)	0.255
Tensile Strength	(N/cm)	450 x 390
Trap Tear Strength	(N)	32 x 27
PTFE Content	(%)	62
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	1000, 1525



CL F910 CHEMLAM®

CL F910 is an extremely robust and versatile multilayer PTFE-film laminated glass fabric. It provides excellent non-stick release properties, as well as increased wear and abrasion performance. It is specifically designed for use in food applications, e.g. contact grilling and fat frying.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	590
Thickness	(mm)	0.295
Tensile Strength	(N/cm)	520 x 460
Trap Tear Strength	(N)	40 x 38
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	650, 1000, 1350



CF110-2

CF110-2 is a high-strength, very smooth PTFE-coated glass fabric with excellent release properties. The surface is specifically designed to be micro-crack free and resistant to oils and fats. It is typically used as a conveyor belt in contact grilling and polymer processing.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	540
Thickness	(mm)	0.255
Tensile Strength	(N/cm)	480 x 400
Trap Tear Strength	(N)	35 x 30
PTFE Content	(%)	63
Temperature Resistance	(°C)	-150 to +260
Dielectric Strength	(kV)	7.4
Standard Widths	(mm)	1525, 2000, 2600



CL F916 CHEMLAM®

CL F916 is a multilayer PTFE-film laminated glass fabric. This product provides high mechanical strength, dimensional stability as well as excellent release properties and increased wear and abrasion performance. CL F916 is specifically designed for use in food and polymer processing applications.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	900
Thickness	(mm)	0.410
Tensile Strength	(N/cm)	700 x 550
Trap Tear Strength	(N)	95 x 80
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	1350

Branches, Markets and Applications

- Food
- Polymer/Plastics Processing
- Packaging
- Textiles/Non-wovens
- Components/Insulation
- Others



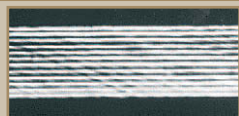
Packaging - heat sealing



Vacuum packaging - heat shrinking



Textile / Non-woven drying



... with multi-layer cast films laminated on coated PTFE fabric



CF210-2 AS

CF210-2 AS - is a smooth, anti-static and mechanically strong PTFE-coated fabric. It is typically used for fuse pressing belts but is also used as a release sheet and conveyor belt for various thermal lamination processes including wood and plastic composite panels and solar cells.

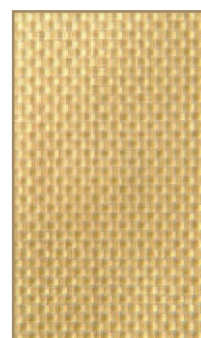
TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	500
Thickness	(mm)	0.235
Tensile Strength	(N/cm)	540 x 500
Trap Tear Strength	(N)	54 x 55
PTFE Content	(%)	60
Temperature Resistance	(°C)	-150 to +260
Surface Resistivity	(Ω-square)	1 x 10 ⁹
Standard Widths	(mm)	1525, 2000, 2600



TCK106

TCK106 is a PTFE-coated aramid (Kevlar®) fabric with an extremely high tensile strength to thickness ratio. It is typically used in conveyor belt applications where a thin high-strength material is required. It is recommended for use in moist and steam environments.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	260
Thickness	(mm)	0.170
Tensile Strength	(N/cm)	400 x 400
Trap Tear Strength	(N)	95 x 85
PTFE Content	(%)	71
Temperature Resistance	(°C)	-73 to +220
Standard Widths	(mm)	1250



CF214-1 AS X

CF214-1 AS X is a super-smooth PTFE-coated glass fabric. It offers excellent and durable release properties combined with high mechanical strength and dimensional stability. It is used as a belting material for fuse pressing and lamination processes including films, foams, woven and non-woven textiles.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	700
Thickness	(mm)	0.345
Tensile Strength	(N/cm)	600 x 500
Trap Tear Strength	(N)	70 x 65
PTFE Content	(%)	59
Temperature Resistance	(°C)	-150 to +260
Surface Resistivity	(Ω-square)	1 x 10 ⁹
Standard Widths	(mm)	1525, 2000, 2600



CF206-2 TR

CF206-2 TR is a PTFE-coated glass fabric which combines good mechanical strength, excellent flexibility as well as crease and tear-resistance. It is typically used for high-speed side sealer belts in the packaging industry.

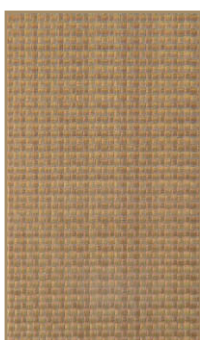
TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	300
Thickness	(mm)	0.140
Tensile Strength	(N/cm)	330 x 270
Trap Tear Strength	(N)	38 x 38
PTFE Content	(%)	65
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	1000



TCK117 X

TCK117 X is an ultra-strong PTFE-coated woven aramid (Kevlar®) fabric that offers improved non-stick release performance and durability. Typical applications are conveyor belts for food processing and high-speed textile drying or various lamination processes.

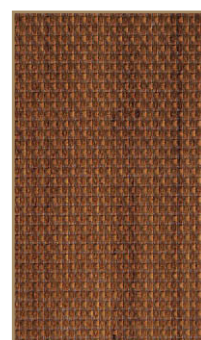
TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	700
Thickness	(mm)	0.435
Tensile Strength	(N/cm)	800 x 1100
Trap Tear Strength	(N)	140 x 120
PTFE Content	(%)	63
Temperature Resistance	(°C)	-73 to +220
Standard Widths	(mm)	1800, 2800



CF314

CF314 is a medium-weight PTFE-coated glass fabric. It is typically used as a non-stick surface in applications which require a high-strength release sheet and regular replacement.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	630
Thickness	(mm)	0.315
Tensile Strength	(N/cm)	660 x 510
Trap Tear Strength	(N)	60 x 50
PTFE Content	(%)	54
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	1000, 1525



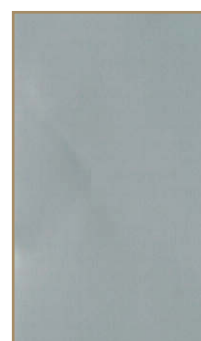
Product is also available

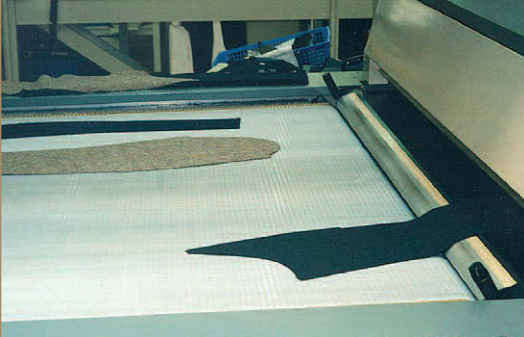
- A** Anti-static
- 3** One side silicone adhesive
- 4** One side acrylic adhesive
- A3** Anti-static and one side silicone adhesive
- Q** PTFE top coat
- T** Tear-resistant

CSSPSA-10 S

CSSPSA-10 S is a high-quality pure PTFE film coated with silicone adhesive. It provides the unique properties of PTFE in a form suitable for application as a surface liner for wood, metal or plastic. It provides excellent release/non-stick properties and is unaffected by most chemicals and solvents.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	540
Total Thickness	(mm)	0.295
Adhesive	Type	Silicone
Adhesion Strength	(N/mm ²)	5.9
Min. Elongation	(%)	200
Polyken Tack	(g)	420
Temperature Resistance	(°C)	-73 to +260
Standard Widths	(mm)	1000





Fuse pressing / Thermal lamination



Components / Insulation



Architectural membranes

Superior performance means **CHEMLAM®** laminated PTFE-fabrics



CSIL S-6006 W

CSIL S-6006 W is a silicone-rubber coated glass fabric. It has excellent release properties and retains its strength and flexibility even after prolonged exposure to high temperature. It is typically used for curtains at the entrance to heating and curing ovens or on heat shrink packaging tunnels.

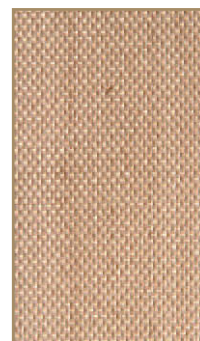
TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	260
Thickness	(mm)	0.180
Tensile Strength	(N/cm)	200 x 90
Trap Tear Strength	(N)	23 x 7
Temperature Resistance	(°C)	-73 to +250
Standard Widths	(mm)	1000



CF910-1

CF910-1 is a lightly-coated porous PTFE glass fabric. It is typically used as a porous release fabric for moulding and curing applications such as composites where "off-gassing" is required. It is also used in packaging film welding to obtain clear texture and imprint at the seal closure area.

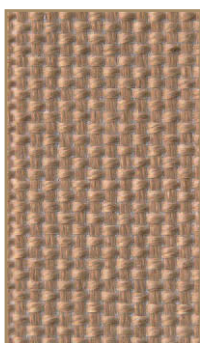
TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	240
Thickness	(mm)	0.195
Tensile Strength	(N/cm)	380 x 300
PTFE Content	(%)	15
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	1000



CF7330

CF7330 is a high-weight, high-strength PTFE-coated glass belting fabric. It has a highly textured surface combined with excellent release properties. It is used in the carpet and floor covering industries for curing of rubber or PVC backings where a textured imprint is required.

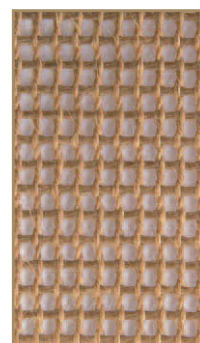
TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	1015
Thickness	(mm)	0.790
Tensile Strength	(N/cm)	960 x 880
Trap Tear Strength	(N)	200x320
PTFE Content	(%)	43
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	2550



CF9035

CF9035 is a 2x2 mm open-mesh PTFE-coated glass fabric with excellent release properties and dimensional stability. It is typically used as a conveyor belt fabric in textile, screen printing and food drying applications as well as non-woven bonding.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	450
Thickness	(mm)	0.700
Mesh Size	(mm)	2 x 2
Open Area	(%)	50
Tensile Strength	(N/cm)	350 x 600
PTFE Content	(%)	25
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	1750, 3000



CF3460

CF3460 is a smooth, heavy-duty PTFE-coated glass belting fabric offering superior non-stick properties. Due to its highly consolidated coating and smoother surface, it is typically used in the carpet and floor covering industries, particularly where best-in-class release performance is required.

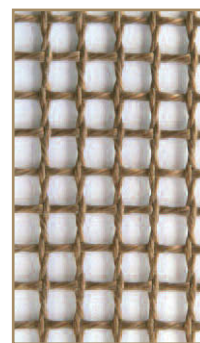
TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	1100
Thickness	(mm)	0.630
Tensile Strength	(N/cm)	740 x 840
Trap Tear Strength	(N)	200x220
PTFE Content	(%)	48
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	2450



CF9014

CF9014 is a 4x4 mm open-mesh PTFE-coated glass fabric with excellent release properties and dimensional stability and a high level of open areas. It is typically used as a conveyor belt fabric in textile, screen printing and non-woven bonding applications as well as food drying processes.

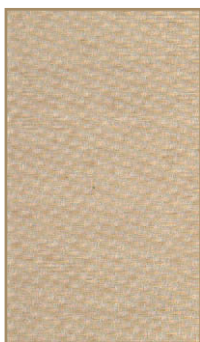
TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	460
Thickness	(mm)	0.900
Mesh Size	(mm)	4 x 4
Open Area	(%)	75
Tensile Strength	(N/cm)	550 x 550
PTFE Content	(%)	32
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	2520, 2700, 3200



CF183M

CF183M is a satin-weave, heavily-coated PTFE-glass belting fabric designed to provide a very smooth surface with excellent non-stick performance. The unique construction is designed for critical conveyor belting applications requiring excellent tracking and minimal elongation of the belt.

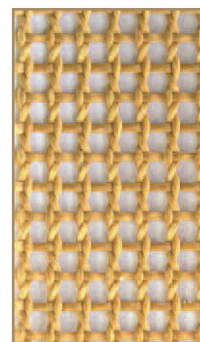
TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	1170
Thickness	(mm)	0.610
Tensile Strength	(N/cm)	1050 x 790
Trap Tear Strength	(N)	270 x 180
PTFE Content	(%)	53
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	2490



TCK800

TCK800 is an open-mesh PTFE-coated aramid (Kevlar®) conveyor belting fabric offering very high mechanical strength and dimensional stability. It is particularly suitable for use in moist/wet environments or on high-speed drying machines for textiles and non-wovens.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m ²)	410
Thickness	(mm)	0.900
Mesh Size	(mm)	2 x 2
Open Area	(%)	50
Tensile Strength	(N/cm)	960 x 750
PTFE Content	(%)	21
Temperature Resistance	(°C)	-73 to +220
Standard Widths	(mm)	1350





Saint-Gobain Performance Plastics
Kilrush
Co. Clare
Ireland
Tel: +353 65 90 80 170
Fax: +353 65 90 80 177
E-mail: aff.europe@saint-gobain.com

Saint Gobain Performance Plastics Cologne GmbH
Am Nordkanal 37
D-47877 Willich
Germany
Phone: +49 (0) 21 54 60 190
Fax: +49 (0) 21 54 60 194
E-mail: aff.germany@saint-gobain.com

Saint-Gobain Performance Plastics Tygaflor Ltd
Bay 3 Transpennine Industrial Estate
Gorrels Way
Rochdale OL11 2PX
United Kingdom
Tel: +44 170 674 69 00
Fax: +44 170 674 69 91
E-mail: aff.uk@saint-gobain.com

Saint-Gobain PPL Bompas
42 Avenue de la Salanque
B.P. 1
F-66430 Bompas
France
Tel: +33 4 68 63 53 53
Fax: +33 4 68 63 26 46
E-mail: aff.france@saint-gobain.com

Saint-Gobain Performance Plastics
Ul. Toruńska 239/241
62-600 Koło
Poland
Tel: +49 (0) 21 54 60 190
Fax: +49 (0) 21 54 60 194
E-mail: aff.europe@saint-gobain.com

Saint-Gobain Performance Plastics
701 Daniel Webster Highway
Merrimack, NH 03054
USA
Tel: +1 603 424 9000
Fax: +1 603 424 9012
E-Mail: CFMarketing@saint-gobain.com

Saint-Gobain Performance Plastics Brazil
R. Antonio Matheus Sobrinho, 120
Cep: 13280-000
Vinhedo-SP
Brazil
Tel: +55 19 2127 8532
Fax: +55 19 2127 8540
E-Mail: plastics.sgcp@saint-gobain.com

Saint-Gobain Performance Plastics
No. 1468 Kun Yang Road,
Minhang Development Zone
Shanghai, 200245
China
Tel: +86 21 5472 1568
Fax: +86 21 5472 5993
E-Mail: composites_pplcn@saint-gobain.com

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RAYDEL®	Microwave transmissive composites
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CHR®	Pressure-sensitive adhesive tapes
CHEMSTIK®	Adhesive PTFE-coated fabrics
NORTON®	PTFE and fluoropolymer films including extruded, cast and skived films
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ZITEX®	Porous PTFE membranes

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