

CHEMFAB®



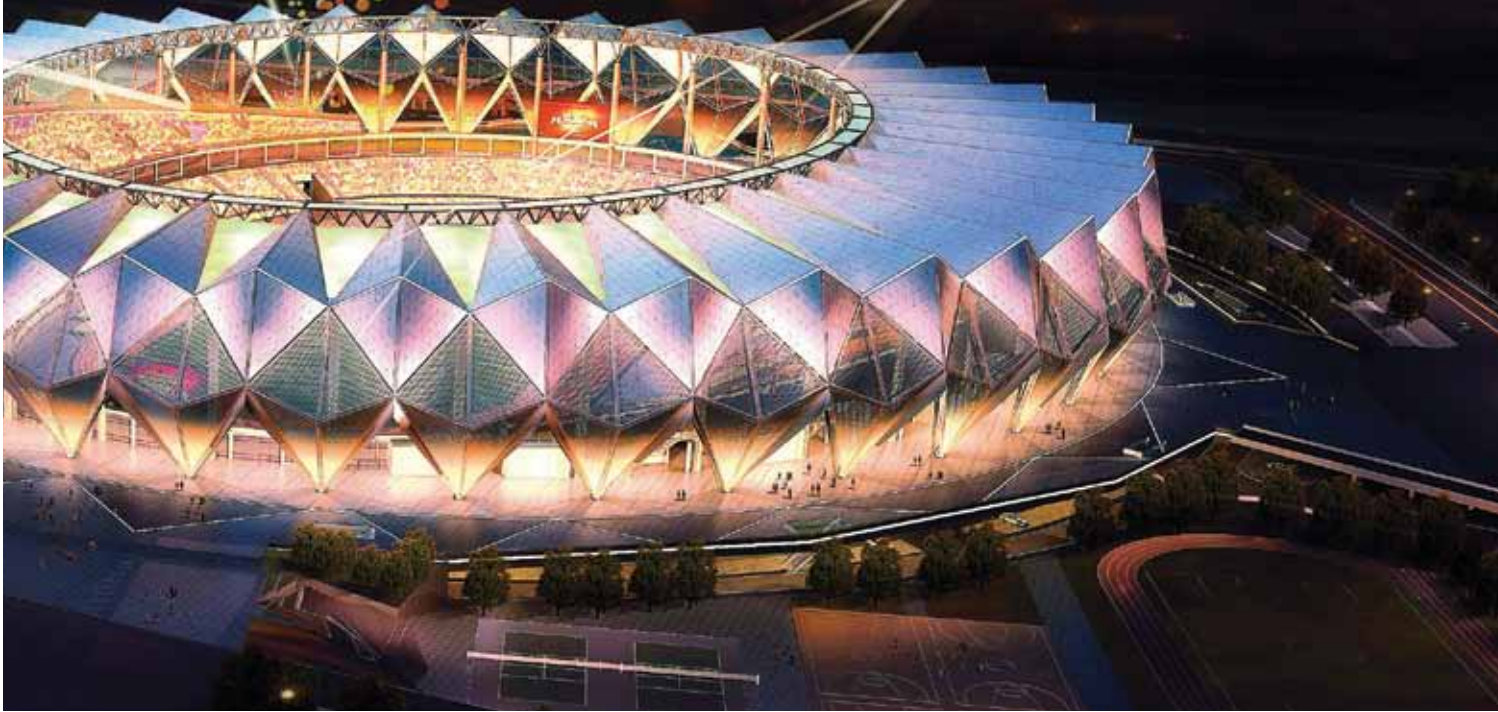
# CHEMFAB®

PARTNER FOR PERFORMANCE

  
SAINT-GOBAIN

# The World of Saint-Gobain

The worldwide leader for Habitat and Industrial markets, for over 350 years Saint-Gobain designs, manufactures and distributes materials and solutions which are key ingredients in the wellbeing of each of us and the future of all.



Over

350

Years in business

Operations in

66 countries

8

Main R&D Centres

Doubled in size

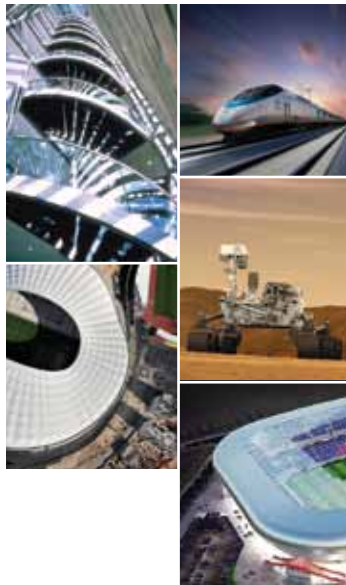
in 20 years

170,000

Employees

1 in 4 Saint-Gobain products sold today was developed in the last

5 years



As one of the 100 most innovative companies, we continue to deploy our technological know-how to deliver improved solutions for the most demanding applications in diverse segments.

As part of Saint-Gobain's Performance Plastics group, we provide industrial expertise and experience in the areas of innovation and co-development through a wide range of high-performance materials and processes.

Our solutions respond to needs and solve problems in various industries such as automotive, aerospace, health, defence, security, and even the food & beverage industries.

With global manufacturing and an extensive distribution network, Saint-Gobain Performance Plastics offers the solutions for your demanding needs, while committing to excel based on customer satisfaction, innovation and operational excellence.



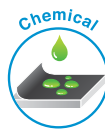


# CHEMFAB®

## PARTNER for Performance

Designed for manufacturers who strive for optimal performance and efficiency in processes that face challenging conditions, CHEMFAB® is the performance coated fabric solution that removes uncertainty through the co-development of longest-lasting, most consistent performance innovations for a broad range of unique applications.

We support our customers with in-house technical capabilities that are unmatched in the industry. With research and co-development being at the heart of our strategy, we focus both on breakthrough innovations and on continuously improving our products, processes and services in a spirit of openness and attentiveness to customer needs.



Chemical is about **Reliable containment** and barrier solutions for handling harsh liquids and gases

- | Chemically inert
- | Excellent barrier properties



Surface is about **Higher productivity:** time, materials and energy savings through the low friction & easy release properties

- | Non-stick and washable
- | Food compliant and hygienic
- | Lowest coefficient of friction



Thermal is about **Consistent performance** and processing over a wide range of operating temperatures

- | Thermally stable from -150 to 260 °C
- | Non-flammable/fire resistant
- | Excellent heat transfer



Mechanical is about **Long lasting and consistent performance** under trying conditions

- | Dimensionally stable
- | Flexible, thermally weldable
- | High tensile and tear strength



Electrical is about **Safe operation and reliable performance** through higher RF transparency and insulation properties

- | High dielectric strength
- | Microwave transparent
- | Low electrical losses



It is our material knowledge, design expertise and process capabilities that have made CHEMFAB® products lead globally in PTFE and silicone coated fabrics, cast films and laminates for more than 40 years. Our tireless pursuit of creating the longest lasting, most consistent performance materials makes us the partner of choice for solving the challenges of tomorrow.

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



CF103

A 3    

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 <sup>2</sup> )	155
Thickness	(mm)	0.075
Tensile Strength	(N/cm)	130 x 90
Trap Tear Strength	(N)	11 x 7
PTFE Content	(%)	69
Temperature Resistance	(°C)	-150 to +260
Dielectric Strength	(kV)	3.8
Standard Widths	(mm)	1000



CF903



CF903 is a lightly-coated porous PTFE glass fabric that provides controlled porosity. It is typically used as a porous release fabric for moulding and curing applications such as composites, where off-gassing is required.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m <sup>2</sup> )	68
Thickness	(mm)	0.060
Tensile Strength	(N/cm)	130 x 90
PTFE Content	(%)	29
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	1000, 2000



CF203

A 3    

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 <sup>2</sup> )	130
Thickness	(mm)	0.070
Tensile Strength	(N/cm)	120 x 90
Trap Tear Strength	(N)	13 x 9
PTFE Content	(%)	63
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	1000, 1525, 2000



CS203 S

4  

CS203 S is a widely used and versatile thin 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.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m <sup>2</sup> )	130
Thickness	(mm)	0.115
Adhesive	Type	Silicone
Adhesion Strength	(N/cm)	5.3
Trap Tear Strength	(%)	13 x 9
Temperature Resistance	(°C)	-73 to +260
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 <sup>2</sup> )	250
Thickness	(mm)	0.120
Tensile Strength	(N/cm)	250 x 230
Trap Tear Strength	(N)	18 x 16
PTFE Content	(%)	58
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	1000, 1525



CS205 S

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 <sup>2</sup> )	250
Thickness	(mm)	0.165
Adhesive	Type	Silicone
Adhesion Strength	(N/cm)	6.2
Trap Tear Strength	(%)	18 x 16
Temperature Resistance	(°C)	-73 to +260
Standard Widths	(mm)	1000



CF206

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 <sup>2</sup> )	300
Thickness	(mm)	0.140
Tensile Strength	(N/cm)	280 x 260
Trap Tear Strength	(N)	16 x 16
PTFE Content	(%)	65
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	1010, 1525



CF206-2 TR



CF206-2 TR is a PTFE-coated glass fabric which combines good mechanical strength and 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 <sup>2</sup> )	300
Thickness	(mm)	0.140
Tensile Strength	(N/cm)	320 x 300
Trap Tear Strength	(N)	40 x 38
PTFE Content	(%)	65
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/m²)	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 <sup>6</sup>
Standard Widths	(mm)	1000, 1525, 2000



CF310



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 belt in industrial food baking.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m²)	470
Thickness	(mm)	0.220
Tensile Strength	(N/cm)	500 x 380
Trap Tear Strength	(N)	38 x 33
PTFE Content	(%)	56
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	1000, 1525



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/m²)	540
Thickness	(mm)	0.250
Tensile Strength	(N/cm)	400 x 360
Trap Tear Strength	(N)	27 x 29
PTFE Content	(%)	62
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	1000, 1525



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 and as a release sheet and conveyor belt for various thermal lamination processes such as wood, plastic composite panels and solar cells.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m²)	500
Thickness	(mm)	0.235
Tensile Strength	(N/cm)	550 x 440
Trap Tear Strength	(N)	40 x 35
PTFE Content	(%)	60
Temperature Resistance	(°C)	-150 to +260
Surface Resistivity	(Ω-square)	1 x 10 <sup>6</sup>
Standard Widths	(mm)	1525, 2000, 2600



TCK106



TCK106 is a PTFE-coated aramid 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/m²)	260
Thickness	(mm)	0.170
Tensile Strength	(N/cm)	400 x 400
Trap Tear Strength	(N)	70 x 85
PTFE Content	(%)	71
Temperature Resistance	(°C)	-73 to +220
Standard Widths	(mm)	1250



Time, materials and energy savings through the low friction & easy release properties



CS310 S



CS310 S is a high-strength, smooth PTFE-coated 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/m²)	470
Thickness	(mm)	0.265
Adhesive	Type	Silicone
Adhesion Strength	(N/cm)	7.5
Trap Tear Strength	(%)	38 x 33
Temperature Resistance	(°C)	-73 to +260
Standard Widths	(mm)	1000



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/m²)	540
Thickness	(mm)	0.255
Tensile Strength	(N/cm)	500 x 450
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, 2350, 2600



Food



Packaging



Components/Insulation



Polymer/Plastics Processing



Textiles/Non-wovens



Others



CF314

3  

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/m²)	630
Thickness	(mm)	0.305
Tensile Strength	(N/cm)	660 x 510
Trap Tear Strength	(N)	70 x 50
PTFE Content	(%)	54
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	1000, 1525



CL4

3  

CL4 is a multilayer PTFE-film laminated glass fabric. It provides excellent barrier and non-stick performance. CL4 is particularly suited as a release sheet in aggressive food processing applications such as grilling, baking and toasting with regular thermal cycling. Its adhesive version is also used as a release sheet for covering the moulds in polymer processing applications.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m²)	210
Thickness	(mm)	0.110
Tensile Strength	(N/cm)	150 x 120
Trap Tear Strength	(N)	13 x 9
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	1010



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/m²)	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 <sup>9</sup>
Standard Widths	(mm)	1525, 2000, 2600



CLF910



CLF910 is a flexible 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/m²)	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

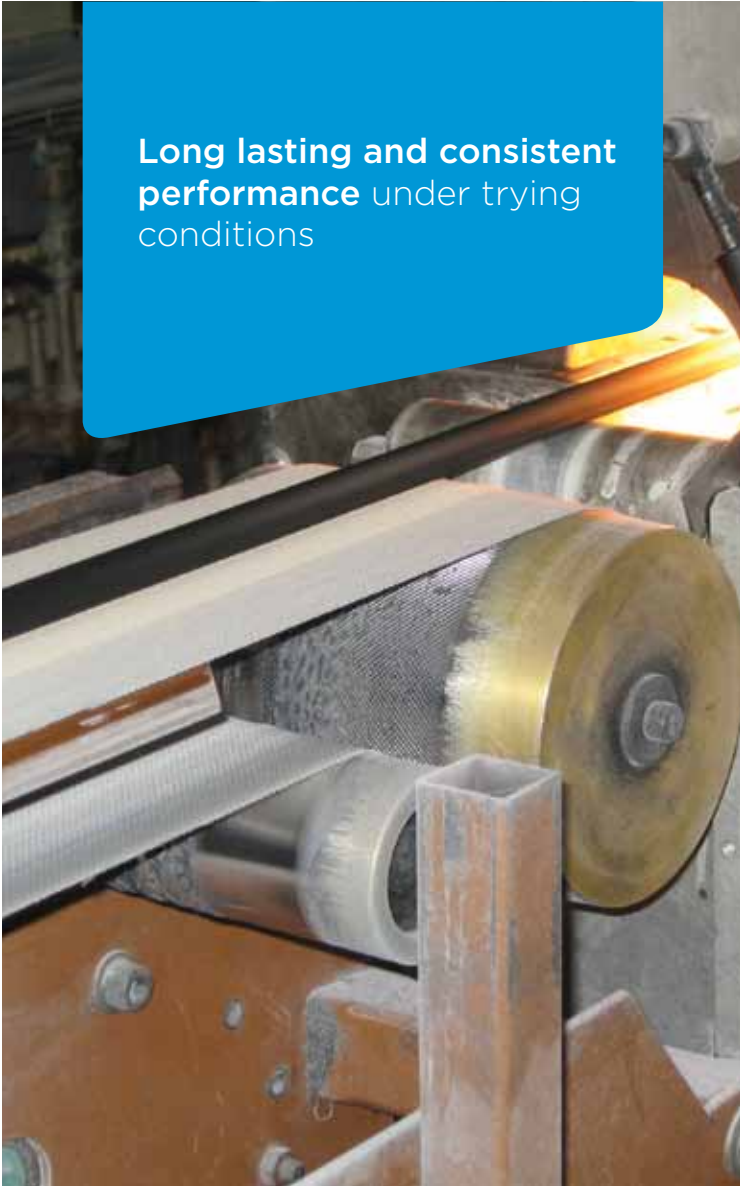


CLF11 BL/BK



CLF11 Blue/Black is an extremely robust PTFE multi-layer composite designed for use in contact grilling and fat frying applications. It has a blue cooking side to provide easy recognition in food processing plants and offers longer life when compared to other laminates or coated products. The product has excellent release and increased wear properties.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m²)	620
Thickness	(mm)	0.305
Tensile Strength	(N/cm)	480 x 410
Trap Tear Strength	(N)	35 x 35
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	1350



Long lasting and consistent performance under trying conditions



CLF916

CLF916 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. CLF916 is specifically designed for use in food and polymer processing applications.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m²)	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



CL6 GX

3   

CL6 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/m²)	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

A Anti-static

3 One side silicone adhesive

4 One side acrylic adhesive

A3 Anti-static and side silicone adhesive

T Tear-resistant





### 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 <sup>2</sup> )	260
Thickness	(mm)	0.180
Mesh Size	(mm)	200 x 90
Tensile Strength	(N/cm)	23 x 7
Temperature Resistance	(°C)	-73 to +250
Standard Widths	(mm)	1000



### CF8915

CF8915 is a 1x1mm open-mesh PTFE-coated glass fabric. It is recommended for use in applications which require superior release characteristics, controlled porosity for rapid drying, and excellent dimensional stability. Specifically designed for use in forced hot air curing ovens, CF8915 is typically used in textile drying applications.

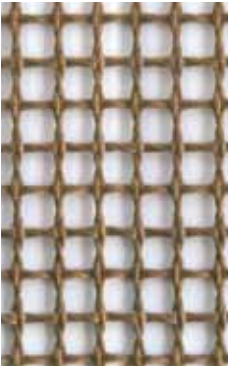
TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m <sup>2</sup> )	530
Thickness	(mm)	0.650
Mesh Size	(mm)	1 x 1
Tensile Strength	(N/cm)	800 x 700
PTFE Content	(%)	21
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	3150



### TCK117 X

TCK117 X is an ultra-strong PTFE-coated woven aramid 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 <sup>2</sup> )	700
Thickness	(mm)	0.435
Tensile Strength	(N/cm)	800 x 1200
Trap Tear Strength	(N)	120 x 180
PTFE Content	(%)	63
Temperature Resistance	(°C)	-73 to +220
Standard Widths	(mm)	1800, 2600



### CF9014

CF9014 is a 4x4 mm open-mesh PTFE-coated glass fabric. It has 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 nonwoven bonding applications as well as food drying processes.

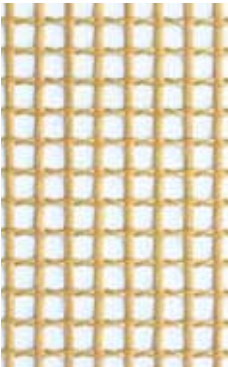
TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m <sup>2</sup> )	460
Thickness	(mm)	0.950
Mesh Size	(N/cm)	4 x 4
Open Area	(%)	75
Tensile Strength	(N/cm)	500 x 650
PTFE Content	(%)	-150 to +260
Temperature Resistance	(kV)	24
Standard Widths	(mm)	2520, 2700, 3200



### 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 <sup>2</sup> )	1140
Thickness	(mm)	0.630
Tensile Strength	(N/cm)	700 x 900
Trap Tear Strength	(N)	120 x 180
PTFE Content	(%)	48
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	2350



### TCK1590 HS

TCK1590 HS is a 3x4mm open mesh PTFE-coated woven aramid fabric. This product has excellent mechanical strength, dimensional stability and is particularly suitable for use in moist/wet environments or on high speed drying machines. It is typically used as a dryer conveyor belt for delicate fabrics in the textiles and non-woven industries as well as in drying can processes.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m <sup>2</sup> )	265
Thickness	(mm)	0.700
Mesh Size	(mm)	3 x 4
Tensile Strength	(N/cm)	750 x 700
Temperature Resistance	(°C)	-73 to +220
Standard Widths	(mm)	2600



### CF4430

CF4430 is a heavy duty belting fabric highly suitable for use in demanding high temperature environments where fabric texture is required. Its strength and rigidity make it ideal for use as large belts especially in the carpet and floor covering industries where rubber or PVC backings are being processed.

TYPICAL PROPERTIES	UNIT	VALUE
Weight	(g/m <sup>2</sup> )	1015
Thickness	(mm)	0.680
Tensile Strength	(N/cm)	700 x 900
Trap Tear Strength	(N)	240 x 350
PTFE Content	(%)	41
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	2265, 2450



### 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 <sup>2</sup> )	240
Thickness	(mm)	0.195
Tensile Strength	(N/cm)	360 x 290
PTFE Content	(%)	15
Temperature Resistance	(°C)	-150 to +260
Standard Widths	(mm)	1000, 1525



Consistent performance  
and processing over  
wide ranges of operating  
temperatures

Versions also available

# Saint-Gobain Coated Fabrics

Coated Fabrics, a business unit within Saint-Gobain Performance Plastics, is a global leader in the design, manufacture and fabrication of high performance fluoropolymer coated fabrics and composites used in challenging environments around the world.

These products are used in applications such as roofing membranes in landmark buildings, productivity aids in industrial and food processing, chemical barrier fabrics for collective protection, Hazmat suits for personal protection and radome solutions for higher reliability communications.

**CHEMFAB®** is the performance PTFE coated fabric solution that delivers most consistent performance over a wide range of applications.

**CORETECH®** is the fluoropolymer based flexible composite engineered to provide barrier in the most safety demanding applications.

**SHEERFILL®** is the high performance permanent architectural tensioned membrane that inspires dramatic design freedom for creating iconic structures that perform for generations.

**SHEERGARD™** is the engineered solution that provides maximum system protection and reliable continuous communication for high performance aircraft and land-based radomes.

**ONESUIT®** is the range of certified high-performance hazmat suits, chemical protective clothing and related equipment that assures maximum protection with unsurpassed comfort.



Limited Warranty: For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our option, to refund the purchase price thereof.

Saint-Gobain Performance Plastics does not assume any responsibility or liability for any advice furnished by it, or for the performance or results of any installation or use of the product(s). Nothing in this disclaimer limits Saint-Gobain Performance Plastics' liability for death or personal injury due to its negligence.



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