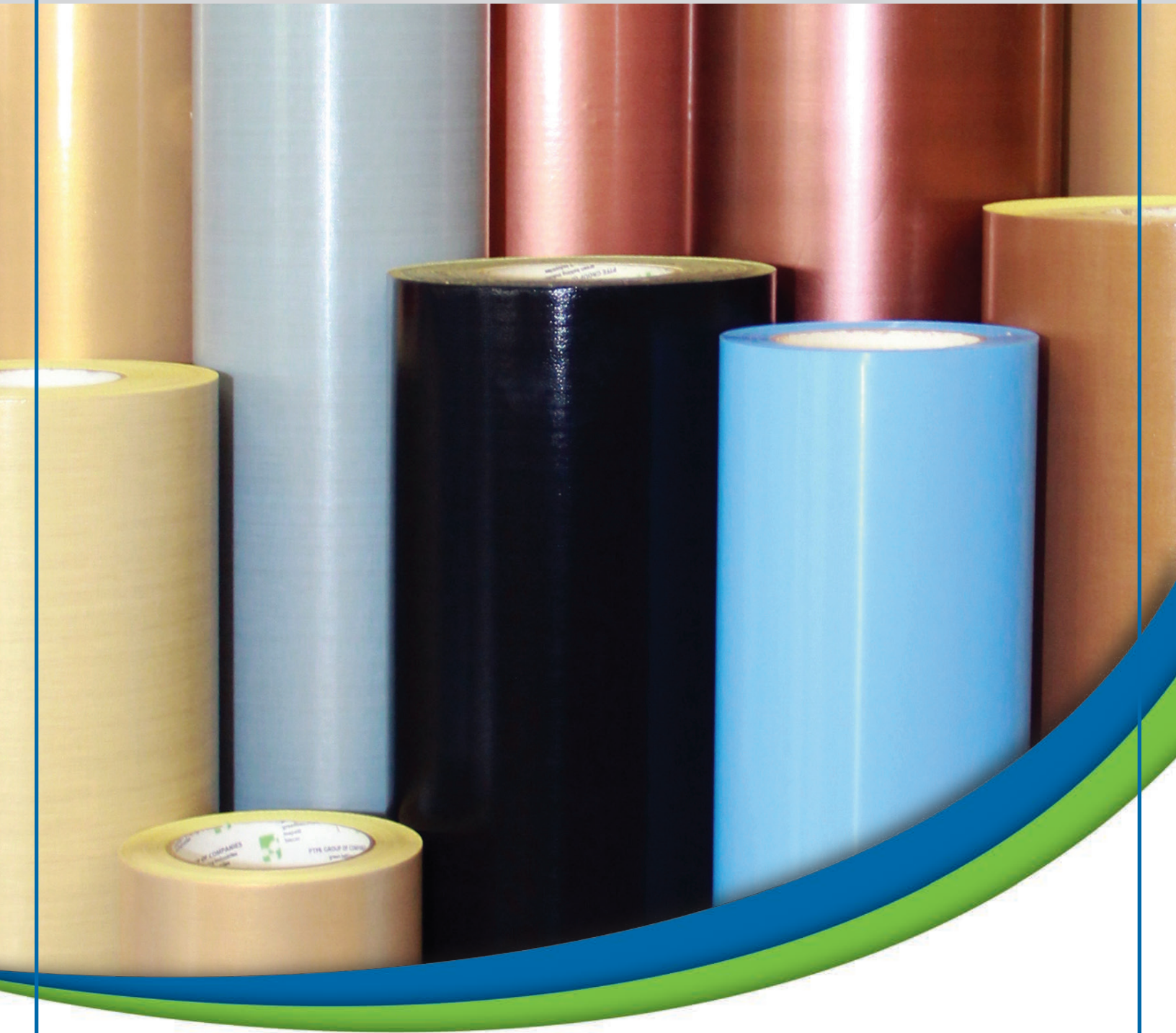


# PTFE & Silicone Fabrics

ENERGY COMPOSITES FOOD PACKAGING FLAT BREADS LAMINATION SURGICAL AUTOMOTIVE PHARMA  
WELDING AVIATION TORTILLAS MEDICAL BLEEDER CLOTH BAKING PEEL-PLY THERMAL SPRAY POLYFILM  
ABRASIVES CONSTRUCTION WOOD PRODUCTS FORM-FILL-SEAL SOLAR PANELS ELECTRONICS TEXTILES



**green belting**  
*a division of Ammeraal Beltech*

# High Tolerances for Demanding Environments

When coated high-performance fabrics are needed for your machinery, process, or product, you can depend on Green Belting Industries of Companies for our complete line of PTFE Fabrics. Constructed with the finest quality materials and technology, all PTFE Fabrics offer exceptional release properties (non-stick), strength, dimensional stability, and resistance to extreme temperatures, chemical bonding, abrasion and compression. All offer industry-leading durability, multi-cycle re-usability, and many are FDA compliant. We offer a wide range of thicknesses, surface textures, weaves, porosities, and dielectric properties for optimal performance across a wide range of end-use applications.

## Some common end-use applications...



### Packaging

Whether it's for the packaging of food, toys, pharma, or surgical products, or if the process involves form / fill / seal, heat-shrink, or blister pack machinery, PTFE Fabrics offer protective coverings for heat-sealing elements. They allow rapid transfer of heat while protecting the heat elements from build-up of melted packaging material.

*Depending on the type of machinery and process, a variety of performance fabrics may be used. Some of the more common applications use PTFE 100-3, and DXL 3.*



### Baking and Grilling

PTFE baking tray liners offer a safe way to improve baking efficiency, both in commercial and household settings. The non-stick liners allow clean and easy removal of cooked products while preventing adhesion and build-up of baking ingredients. The result is faster turnover time and reduced clean-up. The PTFE coating withstands the high temperatures of baking ovens (up to 287°C / 550°F).

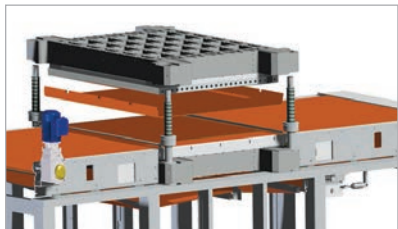
*Different product applications, ingredients, abrasiveness, temperatures, as well as expectations for longevity, and turnaround time call for different thicknesses and grades of PTFE fabric, from 100-3, to 100-10.*



### Composites / Peel-Ply

PTFE Fabrics fill a number of roles within the composite industry, from use as peel-ply and porous cloth, to release film. For peel-ply, thinner (Porous) grades are generally preferred for their conformability, breath-ability, texture, and strength. The porous nature of the thinner fabrics allows gasses to escape during the curing process. Different surface textures, from smooth to coarse, can be selected to control the desired surface texture on the finished product. Due to the use of high-strength substrates, even thinner PTFE peel-ply fabrics can be removed easily, and in one piece, once the composite product has cured.

*Fabrics typically used in peel / ply and release applications include PTFE100-3, 100-8 SW PR, and 100-10.*



### Flat-bread Belt and Platen Cover

The baking of tortillas, and flat breads often involves abrasive flour and grain ingredients, oils, high heat, and pressure. The belts and platen covers used in this machinery must therefore be able to resist these elements and forces. FDA compliant PTFE Belts and press platen covers endure the high baking temperatures abrasiveness while allowing clean release and removal of finished products and debris. PTFE Fabrics also resist penetration of cooking oils and resist bonding of other ingredients.

*100-10 and DXL 10 PTFE Coated Glass Fabrics perform well in these environments.*



### Lamination Sheet and Belts

Heat transfer and release properties of PTFE Fabrics make them well-suited for use in lamination equipment where high heat and pressure is used to bond lamination layers. For example, solar panel manufacturing involves laminating solar cells between EVA (ethylene vinyl acetate), tempered glass and PV (polyvinyl). PTFE coated fabrics are used both as belting, and as protective coverings for the lamination press surfaces.

*Combinations of PTFE DXL 4, DXL 5, 100-5, 100-6, or 100-10 are commonly used as belts and coverings.*

**PTFE / Glass Fabrics** offer a slippery-smooth surface texture that ranges in texture from extremely smooth to coarse weave. There are 10 different PTFE fabric categories, and fabric thickness range from 3 mil to 27 mil.

**Silicone / Glass Fabrics** offer more flexibility, resist creasing, and have a rubbery non-stick surface. Silicone fabrics can be coated on one or both sides. Fabric thicknesses range from 7 mil to 35 mil.

**PTFE / Aramid Fabrics** offer a surface texture similar to that of PTFE / Glass, but with an Aramid substrate that is stronger and more dimensionally stable than fiberglass. It is also more resistant to degradation from moisture exposure. There are 3 thicknesses of PTFE / Aramid fabric ranging from 5 mil to 17 mil.



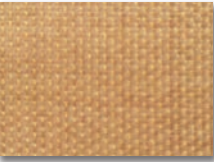
Physical Properties

Product	Max Width		Nom. Thickness		Nom. Weight	
	(in)	(mil)	(mil)	(mm)	(oz/yd <sup>2</sup> )	(g/m <sup>2</sup> )
Standard						
100-3	60	1500	3	0.08	4	136
100-5	60	1500	5	0.13	8	258
100-6	60	1500	6	0.15	9	298
100-8	40	1000	8	0.20	12	417
100-8 SW	40	1000	8	0.20	10	332
100-10	60	1500	10	0.25	14	488
100-10 SW	89	2200	9	0.23	10	332
100-14	89	2200	14	0.36	17	576
100-20	38	950	20	0.51	27	902
100-27	50	1270	27	0.69	31	1058
100-27 SP50	89	220	27	0.69	32	1085
Black						
100-3 BLK	40	1000	3	0.08	4	136
100-5 BLK	40	1000	5	0.13	8	258
Premium						
100-3 PR	60	1500	3	0.08	4	146
100-5 PR	60	1500	6	0.15	8	275
100-6 PR	60	1500	6	0.15	9	309
100-8 SW PR	40	1000	8	0.20	11	387
100-10 PR	60	1500	10	0.25	15	515
100-10 128	89	2200	10	0.25	15	492
100-12 PR SP	89	2200	12	0.30	18	593
100-14 PR	89	2200	14	0.36	22	732
100-20 PR	60	1500	20	0.51	31	1051
100-27 SP50 PR	89	2200	27	0.69	38	1289
DXL						
DXL-3	40	1000	3	0.08	4	136
DXL-4	40	1000	4	0.10	6	207
DXL-5	40	1000	5	0.13	8	258
DXL-6	40	1000	6	0.15	9	298
DXL-10	60	1500	10	0.25	15	522
Mechanical						
100-3 ME	40	1000	3	0.08	3	109
100-5 ME	40	1000	5	0.13	6	203
100-6 ME	40	1000	6	0.15	9	298
100-10 ME	60	1500	10	0.25	14	488
Porous						
100-3 POR	60	1500	3	0.08	2	61
100-5 POR	40	1000	5	0.13	3	109
100-22 POR	60	1500	22	0.56	22	729
Tear-Resistant						
100-3 TR	40	1000	3	0.08	4	139
100-4 TR	36	954	4	0.10	6	197
100-5 TR	40	1000	5	0.13	8	254
100-6 TR	40	1000	6	0.15	9	298
100-10R	89	2200	10	0.25	14	488
Specialty						
100-5 SP05	40	1000	5	0.13	5	153
100-10 SP10	60	1500	10	0.25	14	488
Antistatic Black						
100-5 AS	40	1000	5	0.13	8	258
100-10 AS	89	2200	10	0.25	14	482
100-14 AS	89	2200	14	0.36	21	699
PTFE Coated Aramid Fabrics						
KEV 5 PR	50	1250	5	0.13	4	146
Silicone Coated Glass						
SW-7 SP1	40	1000	7	0.18	9	288
SW-10	40	1000	10	0.25	10	342
SW-23 COSO*	38	954	23	0.58	20	675
SR -23 COSO*	38	954	23	0.58	20	675
SW-25	38	954	25	0.64	27	909
SR-25	38	954	25	0.64	27	909
SW-32 COSO*	38	954	32	0.81	30	1031
SW-35	38	954	35	0.89	33	1131

Product data is subject to change. Contact your representative for more details.

\*COSO = Coated One Side Only

Fabric Categories



Standard

High strength PTFE / Glass offers excellent release properties for use in a wide range of applications from cooking and baking to composites / peel-ply.



Black

Ideal for high-heat environments, offers enhanced thermal-conductive coating for greater heat transfer, and a protective surface coating that increases its resistance to ultra-violet exposure from UV drying processes.



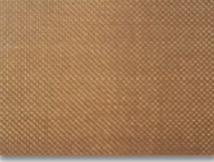
Premium

Ultra smooth PTFE / Glass fabric offers exceptional release properties with superior strength and excellent heat conductivity. This fabric is used for lamination belting, rubber extrusion, and more.



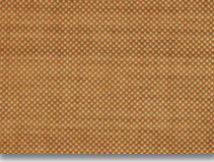
DXL

Specially reinforced PTFE increases resistance to abrasion and wear. DXL is ideal for high temperatures and abrasive uses such as window frame welding, heat-sealing, and pressing / conveying of grainy food products.



Mechanical

Lighter PTFE coating results in a more textured surface, revealing the geometry of the Fiberglass substrate. These fabrics are often used as peel-ply in composites where more surface texture is desired.



Porous

Strong for their thickness, the gas permeable nature of these fabrics make them ideal for use as ‘peel-ply’ in the manufacture of composites. High tensile strength and excellent release properties allow for easy, one-piece removal.



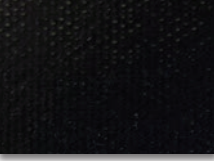
Tear-Resistant

Due to their high resistance to abrasion and tearing, these fabrics are commonly used in a wide range of belting applications.



Specialty

Favoured for sealing applications, these fabrics have a very smooth surface texture and enhanced release properties.



Antistatic Black

The anti-static / conductive properties of this fabric also make it ideal for powder coating, electronics applications, and lamination belting.



PTFE / Aramid

Our strongest PTFE coated fabric (stronger than steel by weight) offers greater resistance to cuts, flex fatigue, and shrinkage, and is better suited for more demanding, high-moisture applications.



Silicone / Glass

Tough, non-stick Silicone coating and high-strength Fiberglass, results in a fabric that performs well in a number of demanding environments, from cooking / baking to thermal spray masking. Available in white or red.

# The Green Belting Advantage

At Green Belting Industries, our approach to producing quality performance materials contemplates the vast range of unique applications and possibilities, from routine to complex, and from harsh to extreme. Our line of PTFE, Silicone, and Aramid fabrics meets a diverse range of barrier, release, belting, gasket, and other specialized demands. Customers experience a dramatic increase in performance and process efficiency while reducing turnaround time. Our ever-increasing Knowledge Base of resources offers tips, techniques, and examples to provide support to our customers and end users.



## Strength and Performance - Fabrics, Belts, Tapes, and more...

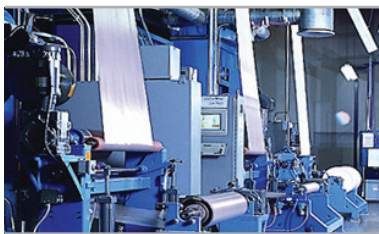
Green Belting Industries offers the highest quality PTFE and Silicone coated fabrics, tapes, belts, pre-cuts, and nested kits for a multitude of applications ranging from baking sheets to thermal spray masking for jet engine turbine blades. **Key performance attributes:**

- Resistance to extreme temperatures and abrasion
- Non-stick surfaces resist adhesion and chemical bonding
- Excellent strength and dimensional stability
- Engineered adhesives provide exceptional grip and easy, clean release (leave no residue)
- Excellent heat transfer and dielectric properties (depending on material)
- Food-contact approved (chemically inert, nontoxic).



## Research and Testing

Our goal is to provide the fabric, tape, or belt you need, when you need it. Our R & D teams are constantly testing the performance of existing products and researching new and different substrates, coating resins and manufacturing technologies in response to new and emerging applications. We are always striving to get better at what we do. Whether it's helping you find a resolution to a tough technical problem or simply getting your order out on time, Green Belting Industries is committed to providing you the most cost-effective, best performing and widest choice of engineered performance materials in the marketplace.



## Manufacturing Excellence

As an ISO 9001 Quality Registered company, Green Belting Industries strives for continuous improvement and is committed to providing products and service of the highest quality. We draw from over 50 years of manufacturing excellence to design and build our own specialized equipment that delivers the highest quality engineered fabrics, tapes, & belts to the marketplace. This emphasis on quality and performance enables our customers to benefit from enhanced production efficiencies, higher output quality, and time and cost savings.



## Friendly Expert Service

We know that we can only be as good as our people so Green Belting Industries thrives on individual initiative, teamwork, and superior service to our customers. Our knowledgeable Customer Service teams regularly receive hands-on, cross-departmental training which includes assembling product in one of the fabrication facilities. This approach has made our associates among the most industry-savvy in the business. With Customer Service teams based in all four of our operating countries (Canada, USA, Italy, and the UK), beginning with your initial contact Green Belting Industries is with you every step of the way.



## Efficient Global Distribution

With four plant and office locations in Canada, USA, Italy, and the UK, Green Belting Industries customers benefit from the quick and efficient global distribution. Bringing the resources of these four locations together translates to distinct advantages for our customers, including manufacturing and fabricating efficiencies and improved inventory management, delivery, and customer service. All four facilities are within major population centers, assuring that the majority of our customers will experience product delivery within three to four days from the time of shipping.

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As an ISO 9001 Quality Registered Company, our ongoing procedure for quality assurance starts with thorough inspection of all raw materials to ensure compliance with our required specifications. All manufacturing processes are closely monitored, and finished product is tested against our high internal standards and customer specifications. This assures that we always deliver consistently high quality products.

[www.greenbelting.com](http://www.greenbelting.com)