

# Fluorofab® Tapes

PTFE Coated | Skived | Film

ENERGY COMPOSITES FOOD FORM-FILL-SEAL MOULD RELEASE LAMINATION SURGICAL AUTOMOTIVE  
WINDOWS AVIATION ELECTRONICS AUTOMOTIVE BEARING PADS POLYFILM CONSTRUCTION BLISTER PACK  
PHARMA PACKAGING GUIDE RAILS ELECTRONICS TEXTILES HEAT SHRINK TUNNEL MEDICAL IMPULSE SEAL



PTFE GROUP OF COMPANIES



green belting industries  
greenbelt industries  
mapelli  
biscor

# High Tolerances for Extreme Environments

PTFE Group tapes serve a wide range of manufacturing and end-use purposes. From protective barriers on packaging heat-seal elements, to anti-squeak tapes in high-end automobiles, the key performance characteristics of these tapes in harsh environments improves process efficiency and output quality while reducing production cost. As a proven and trusted leader in the innovation and production of high-quality process materials, PTFE Group provides coated glass and film tapes that are engineered, tested, and proven in manufacturing and packaging plants around the world. Our experienced field representatives and product specialists are committed to helping you find the best tape product for your processing needs.



**Consumer Packaging** - PTFE Group Fluorofab® Tapes are used in a variety of packaging methods, including heat shrink film, blister pack, and form, fill & seal where they serve four important functions:

1. Allow rapid transfer of heat from the thermal element surface through the tape to form the seal,
2. Protect the heat element from damage due to build-up of molten packaging material,
3. Protect the package surface from damage, and
4. Depending on the texture of the tape, apply either a smooth or textured finish to the product seal.

*For heat seal machinery, we recommend 100-3S, 100-5S, or 100-6S tapes. For impulse sealing, we recommend 100-3, 100-5, or 100-6 Zone Tapes. For increased surface texture, use 100-8S SW PR, 100-10S, or 100-14S PR*



**Mould Release** - Materials used to line composite moulding tools, referred to as mould release, mould liners, or release liners, protect the mould from the resins used while enabling quick and clean release of the composite product from the mould tool. PTFE coated fiberglass tapes serve as our standard line of mould release materials. GR6 is our premium mould release offering exceptional durability and smooth surface. With pressure-sensitive adhesive, our mould release solutions conform to the mould surface and can remain securely in place for multiple mould cycles.

*For effective mould release and mould protection, we recommend 100-3S, 100-5S, and 100-6S tapes. For best multi-cycle durability and a smoother finish we recommend GR6 Mould Release.*



**PVC Window Manufacture** - The manufacture of PVC Windows generally involves sections of PVC frame material which are heated and welded together to form the finished window frame. PTFE glass tape or fabric, applied to the weld plates, allows rapid heat transfer from the heat plate to the PVC sections, while preventing melted PVC from sticking to the plate surface. This results in a clean weld, a clean surface on the weld plate, and faster, uninterrupted window production.

*For PVC window welding, we recommend DXL-4S, DXL-5S, DXL-6S, 100-5S, 100-6S, 100-10S, or GR6.*



**Heat Seal Packaging** - PTFE Coated Fiberglass Tapes, when applied as a cover on the L-Bar heat sealing element and silicone or sponge rubber padding, serves as a non-stick, thermal-conductive protective barrier. The thermal conductivity of the tape allows heat to transfer rapidly through the tape to the packaging film. The L-Bar sealer then melts (heat seals) the layers of poly film together without marking or damaging the film. The non-stick tape also prevents molten film residue from adhering to the heat element.

*For L-Bar protection, we recommend 100-3S or 100-5S Tapes.*



**Anti-Squeak Tape** - To help keep cars squeak free, our UHMW film tapes provide an 'invisible' solution between contact points where friction between two components would otherwise cause squeaks or rattles. Due to its strength, abrasion resistance, low coefficient of friction, and non-stick surface, UHMW Polyolefin is a type of plastic that mimics many properties of PTFE and is an ideal squeak suppressor.

*For anti-squeak applications, we recommend: 130-5A, or 130-10A UHMW Film Tape with acrylic adhesive.*



**Electronics** - Fluorofab® Tapes are used in the electronics industry in one of two ways, either for insulation of wiring (for dry cell transformers, AC/DC electric motors, or AC/DC electric diesel engines) or to mask semi-conductors against arc spray thermal spray coatings.

*For wiring insulation applications we recommend any PTFE coated tape. For semiconductors, we typically recommend 100-5S or 160-5S HT.*

## Physical Properties

| Product | Maximum Width |      | Nominal Thickness |      | Min. Adhesion to Steel |           | Operating Temperature |      |
|---------|---------------|------|-------------------|------|------------------------|-----------|-----------------------|------|
|         | (in)          | (mm) | (mil)             | (mm) | (oz/in, w)             | (N/cm, w) | (°F)                  | (°C) |

### Fluorofab® 100 Series PTFE Coated Glass Tape

|              |    |      |    |      |     |      |             |            |
|--------------|----|------|----|------|-----|------|-------------|------------|
| 100-3S       | 40 | 1000 | 3  | 0.08 | 30  | 3.3  | -100 to 500 | -73 to 260 |
| 100-3S PR    | 40 | 1000 | 3  | 0.08 | 30  | 3.3  | -100 to 500 | -73 to 260 |
| 100-3S AS    | 40 | 1000 | 3  | 0.08 | 40  | 4.4  | -100 to 500 | -73 to 260 |
| 100-5S       | 40 | 1000 | 5  | 0.13 | 55  | 6.0  | -100 to 500 | -73 to 260 |
| 100-5S PR    | 40 | 1000 | 5  | 0.13 | 40  | 4.4  | -100 to 500 | -73 to 260 |
| 100-5S AS    | 40 | 1000 | 5  | 0.13 | 50  | 5.5  | -100 to 500 | -73 to 260 |
| 100-5S SP85  | 40 | 1000 | 5  | 0.13 | 40  | 4.4  | -100 to 500 | -73 to 260 |
| 100-6S       | 40 | 1000 | 6  | 0.15 | 40  | 4.4  | -100 to 500 | -73 to 260 |
| 100-6S PR    | 40 | 1000 | 6  | 0.15 | 40  | 4.4  | -100 to 500 | -73 to 260 |
| 100-8S SW PR | 40 | 1000 | 8  | 0.20 | 40  | 4.4  | -100 to 500 | -73 to 260 |
| 100-10S      | 40 | 1000 | 10 | 0.25 | 55  | 6.0  | -100 to 500 | -73 to 260 |
| 100-10S ME   | 40 | 1000 | 10 | 0.25 | 55  | 6.0  | -100 to 500 | -73 to 260 |
| 100-14S PR   | 40 | 1000 | 14 | 0.36 | 30  | 3.3  | -100 to 500 | -73 to 260 |
| 100-3A       | 40 | 1000 | 3  | 0.08 | 50+ | 5.5+ | -40 to 275  | -40 to 135 |
| 100-5A       | 40 | 1000 | 5  | 0.13 | 50+ | 5.5+ | -40 to 275  | -40 to 135 |
| 100-6A       | 40 | 1000 | 6  | 0.15 | 50+ | 5.5+ | -40 to 275  | -40 to 135 |
| 100-10A      | 40 | 1000 | 10 | 0.25 | 50+ | 5.5+ | -40 to 275  | -40 to 135 |

Premium Silicone and Acrylic Grades also available

### Fluorofab® 100 Series - Black PTFE Coated Glass Tape

|              |    |      |   |      |     |      |             |            |
|--------------|----|------|---|------|-----|------|-------------|------------|
| 100-3S Black | 40 | 1000 | 3 | 0.08 | 30+ | 3.3+ | -100 to 500 | -73 to 260 |
| 100-6S Black | 40 | 1000 | 6 | 0.15 | 38+ | 4.1+ | -100 to 500 | -73 to 260 |

### Fluorofab DXL™ and GR6 Reinforced PTFE Coated Glass Tape

|        |    |      |   |      |     |      |             |            |
|--------|----|------|---|------|-----|------|-------------|------------|
| DXL-4S | 40 | 1000 | 4 | 0.10 | 40+ | 4.4+ | -100 to 500 | -73 to 260 |
| DXL-5S | 40 | 1000 | 5 | 0.13 | 40+ | 4.4+ | -100 to 500 | -73 to 260 |
| DXL-6S | 40 | 1000 | 6 | 0.15 | 40+ | 4.4+ | -100 to 500 | -73 to 260 |
| GR6    | 40 | 1000 | 7 | 0.17 | 40+ | 4.4+ | -100 to 500 | -73 to 260 |

### Fluorofab® 100 Series - PTFE Zone Tapes

|            |    |     |   |      |    |     |            |            |
|------------|----|-----|---|------|----|-----|------------|------------|
| 100-3 Zone | 18 | 457 | 3 | 0.08 | 50 | 5.5 | -40 to 300 | -40 to 149 |
| 100-5 Zone | 18 | 457 | 5 | 0.13 | 40 | 4.4 | -40 to 300 | -40 to 149 |
| 100-6 Zone | 18 | 457 | 6 | 0.15 | 40 | 4.4 | -40 to 300 | -40 to 149 |

### 110 Series Skived PTFE Tape

|         |    |     |    |      |    |     |             |            |
|---------|----|-----|----|------|----|-----|-------------|------------|
| 110-3S  | 36 | 914 | 3  | 0.08 | 28 | 3.1 | -100 to 500 | -73 to 260 |
| 110-5S  | 36 | 914 | 5  | 0.13 | 26 | 2.8 | -100 to 500 | -73 to 260 |
| 110-10S | 36 | 914 | 10 | 0.25 | 26 | 2.8 | -100 to 500 | -73 to 260 |

### 130 Series UHMW Polyolefin Tapes

|         |    |     |    |      |     |      |             |            |
|---------|----|-----|----|------|-----|------|-------------|------------|
| 130-5A  | 30 | 762 | 5  | 0.13 | 30+ | 3.3+ | -40 to +225 | -40 to 107 |
| 130-10A | 30 | 762 | 10 | 0.25 | 50+ | 5.5+ | -40 to +225 | -40 to 107 |

### 150 Series High Modulus PTFE Tape

|        |    |     |   |      |     |      |             |            |
|--------|----|-----|---|------|-----|------|-------------|------------|
| 150-3S | 20 | 508 | 3 | 0.08 | 20+ | 2.2+ | -100 to 500 | -73 to 260 |
| 150-5S | 20 | 508 | 5 | 0.13 | 20+ | 2.2+ | -100 to 500 | -73 to 260 |

### Fiberglass Cloth Tapes

|           |    |      |     |      |    |     |             |            |
|-----------|----|------|-----|------|----|-----|-------------|------------|
| 160-5S HT | 48 | 1219 | 7.5 | 0.19 | 30 | 3.3 | -100 to 500 | -73 to 260 |
|-----------|----|------|-----|------|----|-----|-------------|------------|

### PTFE/Glass/Aluminum Laminated Tape (max width = 6")

|        |   |     |    |      |    |     |             |            |
|--------|---|-----|----|------|----|-----|-------------|------------|
| MD 10S | 6 | 152 | 13 | 0.33 | 70 | 7.6 | -100 to 500 | -73 to 260 |
|--------|---|-----|----|------|----|-----|-------------|------------|

Data is subject to change without notice. Contact your representative for more details  
Fluorofab DXL™ is a trademark of Green Belting Industries

## Tapes for Improved Performance & Efficiency

PTFE Group Tapes are engineered for a wide range of manufacturing and end-use purposes. Chemically inert and FDA-compliant, all are designed to withstand extreme temperatures, abrasion, and compression while resisting chemical bonding. Talk to your PTFE Group representative to identify the best tape for your process.



### Fluorofab® 100 Series Tapes

Standard PTFE/glass tapes offer a range of surface textures depending on the size and thickness of the tape and weave. Standard coating is sufficient for most uses. *Silicone or acrylic adhesive.*



### Fluorofab® DXL™ Tapes

PTFE/glass tapes with reinforced engineered coating offer excellent abrasion resistance. *Silicone adhesive.*



### Fluorofab® Zone Tapes

Designed for use on impulse sealers, Fluorofab® Zone Tapes feature an adhesive-free Fluorofab® fabric center zone that covers the heat element. The adhesive on the outside edges is *Acrylic.*



### Fluorofab® 100 Series - Black

The black pigment added to the PTFE coating enhances the ability of this tape to retain heat. Excellent for cooking/baking applications. *Silicone adhesive.*



### 110 Series Skived

Fabricated from pure, unsupported PTFE film, this tape offers excellent resistance extreme temperatures and friction. It is highly conformable, has a non-stick surface and excellent dielectric properties. *Silicone adhesive.*



### 130 Series UHMW Polyolefin

High abrasion resistance, low friction, non-stick surface, and an aggressive adhesive, makes UHMW tapes ideal for a wide range of low-heat applications. *Acrylic adhesive.*



### 150 Series High Modulus PTFE

Similar to 110 Series, but with higher density and strength, this film tape offers higher dielectric properties and less elongation. *Silicone adhesive.*



### 160 Fiberglass

Engineered for thermal spray, this uncoated fiberglass tape is well-suited for electrical insulation and a wide range of uses where a very strong tape is needed. *Silicone adhesive.*



### GR6 Mould Release

Reinforced PTFE coated fiberglass offers exceptional release, high, multi-cycle re-usability, and 40% less post mould processing. *Silicone adhesive.*



### MD-10S PTFE/Glass/Aluminum

Highly thermal-conductive and metal detectable, this PTFE/Glass laminate tape, with a layer of aluminum, is ideal for food packaging and heat-sealing applications. *Silicone adhesive.*

# The PTFE Group Advantage

At PTFE Group, 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 Fluorofab®, 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...

PTFE Group 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, PTFE Group 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, PTFE Group 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 PTFE Group 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 PTFE Group is with you every step of the way.



## Efficient Global Distribution

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

### Canada

#### green belting industries

381 Ambassador Drive  
Mississauga, ON L5T 2J3  
Canada  
T: 905-564-6712  
F: 905-564-6709  
E: [custserv@greenbelting.com](mailto:custserv@greenbelting.com)  
[www.greenbelting.com](http://www.greenbelting.com)

### Italy

#### mapelli

Via del Lavoro 43  
20060 Vignate, MI  
Italy  
T: +39.02.90967258  
F: +39.02.90967236  
E: [info@mapelli-ptfe.com](mailto:info@mapelli-ptfe.com)  
[www.mapelli-ptfe.com](http://www.mapelli-ptfe.com)

### UK

#### biscor

Unit 1, Broadfield Business Park  
Pilsworth Road,  
Heywood OL10 2TA UK  
T: 0800 240 4476  
F: 01706 396691  
E: [info@biscor.com](mailto:info@biscor.com)  
[www.biscor.com](http://www.biscor.com)

### USA

#### greenbelt industries

45 Comet Street  
Buffalo, New York 14216  
USA  
T: 1-800-668-1114  
F: 905-564-6709  
E: [custserv@greenbelting.com](mailto:custserv@greenbelting.com)  
[www.greenbelting.com](http://www.greenbelting.com)



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.