



# FLUOROWRAP®

A

Engineered for High Performance Insulation

## Extruded PTFE Film

FLUOROWRAP® A Extruded PTFE Film is engineered to meet the most demanding requirements of the aerospace industry and high performing electronics applications. Saint-Gobain's extrusion process provides the longest splice free/joint free lengths and highest uniform physical properties supporting the highest requirements of the wire and cable in extreme environmental conditions. FLUOROWRAP® A Extruded Film is manufactured with ASTM D4895 compliant resins.

### Features/Benefits

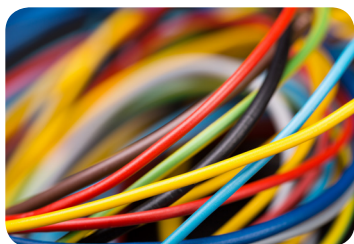
- High dielectric strength
- Outstanding thermal and chemical resistance
- High tensile strengths that support faster tape wrapping speeds
- RoHS and REACH compliant
- Meets MIL-W-16878/4A, 7139B, MIL-W-22759B and NAS703
- Tight thickness tolerance

### Availability

FLUOROWRAP® A Grade Film is available on industry standard 3" (76 mm) ID cores in flat pad, traverse wound and StablEdge™ packages. Slit widths are available at 0.10" (2.5 mm) or wider. Available in natural, white and colors.

### Applications

- Wire and cable insulation for extreme chemical and thermal environments
- Power cable
- Coaxial cable
- Thermocouple wire



SAINT-GOBAIN

## FLUOROWRAP® A Grade Properties

Performance tests are run using standard test procedures.  
The values presented are typical values and should not be used for specification purposes.

| Property                      | English Units             | Metric Units | English Units | Metric Units | English Units | Metric Units | English Units | Metric Units |
|-------------------------------|---------------------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|
| Thickness                     | 2.5 mil                   | 0.064 mm     | 3.0 mil       | 0.076 mm     | 4.0 mil       | 0.101 mm     | 5.0 mil       | 0.127 mm     |
| Tolerance                     | +/- 0.15 mil              | +/- 0.004 mm | +/- 0.15 mil  | +/- 0.004 mm | +/- 0.20 mil  | +/- 0.005 mm | +/- 0.20 mil  | +/- 0.005 mm |
| Density                       | 1.6 g/cm <sup>3</sup>     |              |               |              |               |              |               |              |
| Tolerance                     | +/- 0.5 g/cm <sup>3</sup> |              |               |              |               |              |               |              |
| Tensile Strength MD (minimum) | 3,100 psi                 | 21.4 MPa     | 3,000 psi     | 20.7 MPa     | 2,700 psi     | 18.6 MPa     | 2,400 psi     | 16.5 MPa     |
| Tensile Strength TD (minimum) | 250 psi                   | 1.7 MPa      | 260 psi       | 1.8 MPa      | 275 psi       | 1.9 MPa      | 300 psi       | 2.1 MPa      |
| Elongation MD (minimum)       | 75 %                      |              | 75 %          |              | 80 %          |              | 80 %          |              |
| Joint Free Lengths            | 1,500 LY                  | 1,371 M      | 1,200 LY      | 1,096 M      | 950 LY        | 868 M        | 750 LY        | 685M         |

FLUOROWRAP and StablEdge™ are registered trademarks.



### Saint-Gobain

AMERICAS  
Tel: (800) 962-2666  
(518) 686-7301

EUROPE  
Tel: +44 (0) 1706-746900

ASIA  
Tel: (886) 2-2503-4201

[www.films.saint-gobain.com](http://www.films.saint-gobain.com)

AMERICAS: 14 McCaffrey Street, Hoosick Falls, NY 12090, USA

EUROPE: Bay 3 Transpennine Industrial Estate, Gorrels Way, Rochdale, OL11 2PX, UK

ASIA: Room 302,3F-1, 147 Jianguo North Road, Section 2, Taipei, Taiwan, 104

The data and details in this document were correct and up-to-date at the time of printing and are intended to provide information on our products and their possible applications. It is the user's responsibility to obtain the latest version of the product data sheet. This data sheet is not a specification and does not assure specific product characteristics or make reference to the suitability of the product for a specific application. Because Saint-Gobain cannot anticipate or control every application, we strongly recommend testing of this product under individual application conditions. The application, use and conversion of this product are the user's responsibility.

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. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct or consequential, arising out of the use, misuse or inability to use this product(s).

SAINT-GOBAIN PERFORMANCE PLASTICS DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

NOTE: Saint-Gobain Performance Plastics Corporation 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) or of any final product into which the product(s) may be incorporated by the purchaser and/or user. The purchaser and/or user should perform their own tests to determine the suitability and fitness of the product(s) for the particular purpose desired in any given situation.