



# FLUOROWRAP®

## E7

Engineered for High Performance Insulation

## Expanded PTFE Film

FLUOROWRAP® E7 (0.7g/cm<sup>3</sup>) Expanded PTFE Film is engineered to meet the most demanding requirements for the coaxial cable industry. Saint-Gobain's extrusion process provides the longest splice free/joint free lengths and highest uniform physical properties supporting low loss high frequency coaxial cables. FLUOROWRAP® E7 Film is manufactured with ASTM D4895 compliant resins.

### Features/Benefits

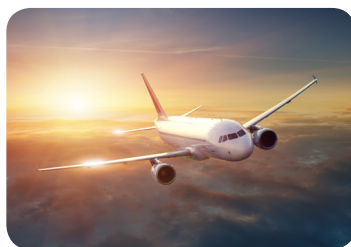
- Low signal loss in coaxial cables
- Long joint free lengths
- Tight thickness tolerance
- Uniform physical properties
- High tensile strength
- RoHS and REACH compliant

### Availability

FLUOROWRAP® E7 Expanded PTFE 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) and wider. Customized solutions available.

### Applications

Coaxial cable



## FLUOROWRAP® E7 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	2.0 mil	0.064 mm	4.0 mil	0.101 mm	5.0 mil	0.127 mm	10.0 mil	0.254 mm
Tolerance	+/- 0.2 mil	+/- 0.001 mm	+/- 0.2 mil	+/- 0.001 mm	+/- 0.2 mil	+/- 0.001 mm	+/- 0.3 mil	+/- 0.008 mm
Density	0.7 g/cm <sup>3</sup>							
Tolerance	+/- 0.05 g/cm <sup>3</sup>							
Tensile Strength MD (minimum)	4,000 psi	28 MPa	3,500 psi	25 MPa	3,000 psi	20 MPa	2,500 psi	17 MPa
Tensile Strength TD (minimum)	100 psi	0.7 MPa	110 psi	0.8 MPa	135 psi	0.9 MPa	165 psi	1.1 MPa
Elongation MD (minimum)	70 %		75 %		90 %		90 %	
Joint Free Lengths	1,700 LY	1,550 M	1,100 LY	1,000 M	900 LY	820 M	750 LY	685 M

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.