

FLUOROWRAP®

R14X Laser Mark-able

Engineered for High Performance Insulation

Extruded Laser Mark-able PTFE Film

FLUOROWRAP® R14X Series Laser Mark-able Extruded PTFE films are engineered to meet the highest standards required by the commercial and military aerospace industry. FLUOROWRAP® R14X films are tailored to the specific needs of each wire and cable construction, whether used as primary insulation or jacket material. FLUOROWRAP® R14X films are manufactured with ASTM D4895 compliant resins.

Features/Benefits

- · High contrast marking
- · Outstanding heat and chemical resistance
- Meets aerospace wire specifications
- · Available in a variety of colors
- RoHS and REACH compliant

Availability

FLUOROWRAP® R14X Laser Mark-able PTFE films are available in widths 3/16" (4.8 mm) up to 2" (50.8 mm) or more in increments of 1/64" (0.40 mm). Films are supplied on industry standard 3" (76 mm) ID cores. Widths 1/4" (6.35 mm) and under will be supplied on traverse wound or StablEdgeTM packages. All widths over 1/4" (6.35 mm) are typically supplied on flat pad packages. Customized solutions available.

Applications

- · Laser marked aerospace wire and cable construction for on-board flight control, power, communication and entertainment systems
- Wire and cable for extreme environments









FLUOROWRAP® R14X Properties

Performance tests are run using standard test procedures.

The values presented are typical values and should not be used for specification purposes.

Property	R141 (English Units)	R141 (Metric Units)	R142 (English Units)	R142 (Metric Units)	R145 (English Units)	R145 (Metric Units)	R146 (English Units)	R146 (Metric Units)
Color	White		White		All colors		All colors	
Thickness	2.0 - 5.0 mil	0.051 - 0.127 mm	2.0 - 5.0 mil	0.051 - 0.127 mm	2.0 - 5.0 mil	0.051 - 0.127 mm	2.0 - 5.0 mil	0.051 - 0.127 mm
Tolerance	+/-10 %	+/-10 %	+/-10 %	+/-10 %	+/-10 %	+/-10 %	+/-10 %	+/-10 %
Density	1.60 g/cm³							
Tensile Strength MD (minimum)	3,000 psi	20 MPa						
Tensile Strength TD (minimum)	300 psi	2 MPa						
Elongation MD (minimum)	90 %		90 %		90 %		90 %	
Contrast (Initial)	60 %		60 %		55 %		60 %	
Contrast (After heat age)	Pass		Pass		Pass		Pass	
Arc Track	≥75 µm		≥50 μm		≥75 µm		≥50 µm	

FLUOROWRAP® and StablEdge™ are registered trademarks.



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