



EM-Hybrid™ Microwave Transparent Composites

LAMINATED PTFE/FIBERGLASS COMPOSITES ENGINEERED FOR PLANAR RADOMES

EM-Hybrid™ Description:

This laminated PTFE/fiberglass composite is designed to protect high-performance antennas in the most challenging environments. Superior mechanical properties and a low dielectric constant provides excellent RF performance.

- **Low transmission loss across a multitude of frequencies**
- **Maintenance free permanent hydrophobic surface**
- **Environmentally stable from -30°F-140°F (-34°C - 96°C)**
- **Wind loads up to 140 MPH**
- **Custom logos and colors available**



EM-HYBRID™ PHYSICAL PROPERTIES

Weight:	14.0 oz/yd ² (475.0 g/m ²)
Thickness:	10 mils (0.25 mm)
Strip Tensile Strength (Warp):	250 lbs/inch (2189 N/50 mm)
Strip Tensile Strength (Fill):	200 lbs/inch (1751 N/50 mm)
Trapezoidal Tear (Warp):	20 lbs (175 N)
Trapezoidal Tear (Fill):	20 lbs (175 N)
Coating Adhesion:	8.0 lbs
Seam/Splice Strength:	98 % / composite
Dielectric Constant:	2.8 Ka band
Loss Tangent:	0.005 Ka band
Water Absorption:	Less than 0.3%
Incombustability:	0 seconds to flameout
Hydrophobic Contact Angle:	≤ 95 degrees, nominal

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TEXTILES COATED INTERNATIONAL | Manufacturer of High-Performance Fluoropolymer Films, Laminates, and Composites

200 Bouchard Street, Manchester, NH 03103 USA PHONE: (603) 296-2221 FAX: (603) 296-2248 www.textilecoated.com