

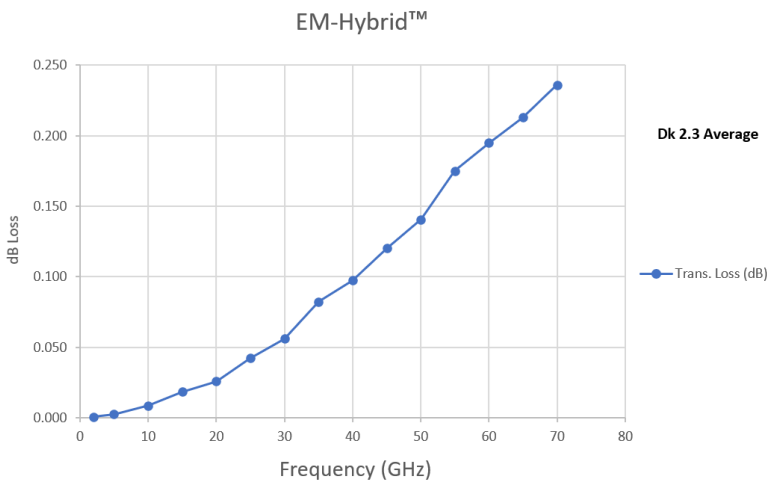
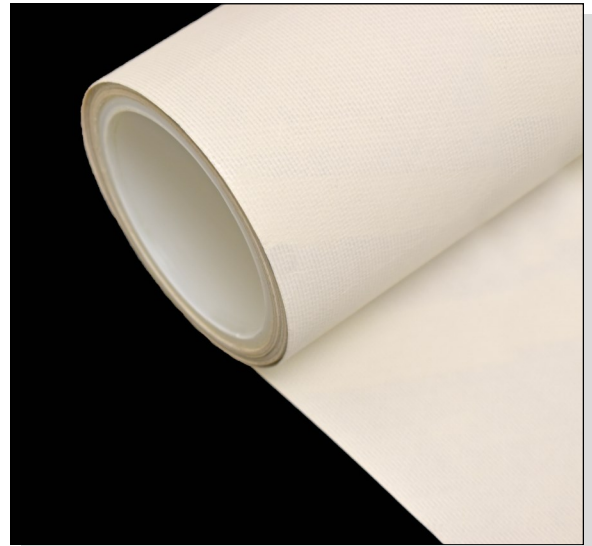


EM-Hybrid™ Microwave Transparent Composites

PTFE COATED FIBERGLASS COMPOSITE 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 -100°F - 140°F (-73°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:	2.3 Ka band
Loss Tangent:	0.005 Ka band
Water Absorption:	Less than 0.3%
Incombustibility:	0 seconds to flameout
Hydrophobic Contact Angle:	≤ 95 degrees, nominal

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