

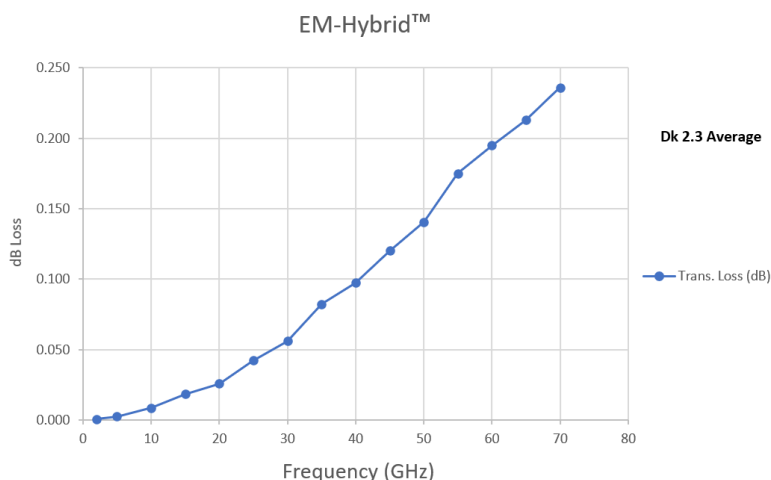


## EM-Hybrid™ Fabricated Planar Radomes

### PTFE COATED FIBERGLASS COMPOSITE FABRICATED 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:

<b>Weight:</b>	14.0 oz/yd <sup>2</sup> (475.0 g/m <sup>2</sup> )
<b>Thickness:</b>	10 mils (0.25 mm)
<b>Strip Tensile Strength (Warp):</b>	250 lbs/inch (2189 N/50 mm)
<b>Strip Tensile Strength (Fill):</b>	200 lbs/inch (1751 N/50 mm)
<b>Trapezoidal Tear (Warp):</b>	20 lbs (175 N)
<b>Trapezoidal Tear (Fill):</b>	20 lbs (175 N)
<b>Coating Adhesion:</b>	8.0 lbs
<b>Seam/Splice Strength:</b>	98 % / composite
<b>Dielectric Constant:</b>	2.3 Ka band
<b>Loss Tangent:</b>	0.005 Ka band
<b>Water Absorption:</b>	Less than 0.3%
<b>Incombustibility:</b>	0 seconds to flameout
<b>Hydrophobic Contact Angle:</b>	≤ 95 degrees, nominal

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