

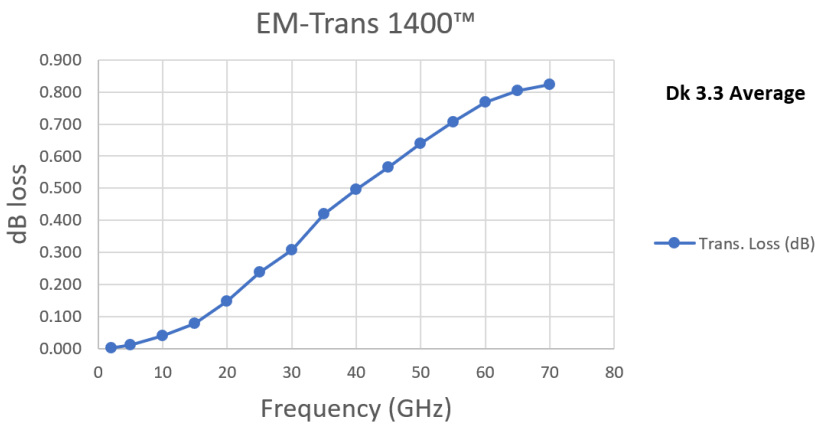


# EM-Trans 1400™ Fabricated Planar Radomes

## PTFE COATED FIBERGLASS COMPOSITE FABRICATED FOR PLANAR RADOMES

### EM-Trans 1400™ Description:

EM-Trans 1400™ is a high strength PTFE/fiberglass composite designed to protect high performance antennas in the most challenging environments. Superior mechanical properties and a low dielectric constant provide excellent RF performance with a design life in excess of twenty years.



- Low transmission loss across a multitude of frequencies
- Maintenance free permanent hydrophobic surface
- Environmentally stable from -100°F - 140°F (-73°C - 96°C)
- Available with PTFE coating on one or both sides
- Wind loads up to 140 MPH
- Custom logos and colors available

### EM-TRANS 1400™ PHYSICAL PROPERTIES:

<b>Weight:</b>	22.7 oz/yd <sup>2</sup> (769.7 g/m <sup>2</sup> )
<b>Thickness:</b>	15.8 mils (0.40 mm)
<b>Strip Tensile Strength (Warp):</b>	467 lbs/inch (4089 N/50 mm)
<b>Strip Tensile Strength (Fill):</b>	471 lbs/inch (4124 N/50 mm)
<b>Trapezoidal Tear (Warp):</b>	34.4 lbs (153 N)
<b>Trapezoidal Tear (Fill):</b>	37.0 lbs (165 N)
<b>Coating Adhesion:</b>	8.0 lbs
<b>Seam/Splice Strength:</b>	98 % / composite
<b>Dielectric Constant:</b>	3.3 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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