

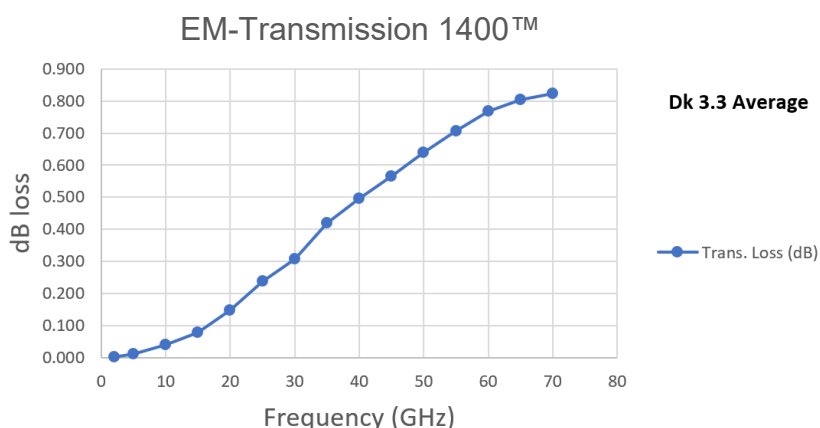


## EM-Transmission 1400™ Microwave Transparent Composites

### PTFE COATED FIBERGLASS COMPOSITE ENGINEERED FOR PLANAR RADOMES

#### EM-Transmission 1400™ Description:

EM-Transmission 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 - 205°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-TRANSMISSION 1400™ PHYSICAL PROPERTIES:

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

This information is supplied in good faith and is based on information currently available. TCI makes NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTIES FOR FITNESS, OR USE FOR A PARTICULAR PURPOSE, OR OF ANY MERCHANTABILITY OR AGAINST INFRINGEMENT OR THE LIKE, unless expressly set forth herein.

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.textilesc coated.com](http://www.textilesc coated.com)