

## Low Dielectric Constant Structural Radome



### Radome5 TP

Radome5 TP provides a low dielectric constant, low loss, and low weight radome for outdoor and indoor applications with strong impact resistance and high tensile strength. Radome5 TP is a thermoplastic that can be thermoformed into complex curves to fit device application and aesthetic needs. Radome5 TP can be painted to meet customer required color needs. This provides an ideal radome material for 5G indoor antenna and router devices.

### FEATURES AND BENEFITS

- Thermoformable for complex shapes
- Ultra low dielectric constant
- Rigid
- Impact resistant
- Good tensile strength for structural requirements
- Lightweight

### VALUE

- Provides environmental protection of antennas with very low signal interference
- Radome5 TP was developed and has been optimized for performance in 5G antenna applications
- Thermoplastic properties of the material allow for Radome5 TP to be integrated into 5G device's exterior design
- Environmentally friendly solution meets including RoHS and REACH

TYPICAL PROPERTIES	DATA
Color	Paint to customer requirement
Dielectric Constant	1.5
Loss Tangent	0.01
Dielectric Strength	>4 KV/mm
Tensile Strength	18.53 MPa
Young's Modulus	492 MPa
Izod Impact Strength	1.07 J/cm
Density	1.827 g/cc
Standard Thicknesses (mm)	>2.5 mm
Thickness Tolerance	+/- 10%
Maximum Width/Length (m)	550 x 914 mm
Flammability Rating	UL 94 V0 (Pending)
Outdoor Suitability	UL 746C F1 (Pending)