

Radome5 Unity

Low Dielectric Constant Structural Radome



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Radome5 Unity provides a low dielectric constant, low loss, and low weight radome for outdoor applications with strong impact resistance and high tensile strength. Radome5 Unity is a homogeneous dielectric constant material providing a uniform dielectric constant through its width. This allows for a low dielectric constant at the initial incident surface for increased signal pass through strength and better signal performance at off angles.

FEATURES AND BENEFITS

- Uniform dielectric constant throughout the material
- 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 Unity was developed and has been optimized for performance in 5G antenna applications
- Homogeneous structure increasing radome performance with increased signal pass through strength and better signal performance at higher incidence angles.
- Environmentally friendly solution meets including RoHS and REACH

TYPICAL PROPERTIES	DATA
Color	White (painted to customer requirement)
Dielectric Constant	1.8
Loss Tangent	0.02
Dielectric Strength	2.60 KV/mm
Tensile Strength	11.11 Mpa
Young's Modulus	1065 MPa
Izod Impact Strength	0.86 J/cm
Density	0.854 g/cc
Standard Thicknesses (mm)	2 to 4.5 mm
Thickness Tolerance	+/- 10%
Maximum Width/Length (m)	550 x 914 mm
Flammability Rating	UL 94 V0 (Pending)
Outdoor Suitability	UL 746C F1 (Pending)