

Low Dielectric Constant Structural Radome



RADOME5 LS

Radome5 LS provides a low dielectric constant, low loss, and low weight radome for outdoor applications with strong impact resistance and high tensile strength. Radome5 LS incorporates an ultra low dielectric constant outer surface to enhance antenna signal performance and provide better impact resistance. The low dielectric constant outer incident surface allows for less signal strength loss as the signal enters the material compared to an overall low dK material with a higher dielectric constant outer surface.

FEATURES AND BENEFITS

- Low dielectric constant incident surface
- Ultra low dielectric constant material
- Rigid
- Impact resistant
- Good tensile strength for structural requirements
- Lightweight

VALUE

- Provides environmental protection of antennas with very low signal interference
- Radome5 LS was developed and has been optimized for performance in 5G antenna applications
- Low dielectric surface increasing radome performance with increased signal pass through strength.
- Environmentally friendly solution meets including RoHS and REACH

TYPICAL PROPERTIES	DATA
Color	Light Grey (painted to customer requirement)
Dielectric Constant	1.5
Loss Tangent	0.01-0.05
Dielectric Strength	3.56 KV/mm
Tensile Strength	14.24 MPa
Young's Modulus	527 MPa
Izod Impact Strength	1.04 J/cm
Density	0.775 g/cc
Standard Thicknesses	>2.5 mm
Thickness Tolerance	+/- 10%
Maximum Width/Length	550 x 914 mm
Flammability Rating	UL 94 V0 (Pending)
Outdoor Suitability	UL 746C F1 (Pending)

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