

Item # Tgard 3000 /, Tgard™ 3000 Series Insulator Material



Tgard™ 3000 Series Insulator Material

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The Tgard™ 3000 is specifically designed to solve over heating issues such as lower component efficiency, premature component failures, size limitations and other performance problems for today's power component assemblies. The need to remove unwanted heat to ambient temperatures becomes more important as electronic systems pack more power into smaller spaces.

The Tgard™ 3000 is a film-based product that is designed to resist cut through in screw mounting applications while providing a more consistent breakdown voltage over other insulator constructions.

The soft conformal coating on the film core provides an excellent mating surface for low pressure clip mounting applications.

SPECIFICATIONS

Thickness	0.005 inches 0.130 mm
Hardness	85 Shore A
Test Method - Hardness	ASTM D2240
Tensile Strength	7.6k psi 52.4 MPa
Test Method - Tensile Strength	ASTM D412
Elongation	85.0 %
Test Method - Elongation	ASTM D412
Operating Temperature	-60 to 180 °C -76 to 356 °F
Color	Brown
UL Flammability Rating	UL 94 V0
Dielectric with Stand Voltage	4500 VAC
Test Method - Dielectric with Stand Voltage	ASTM D149
Dielectric Breakdown Voltage	>6000 VAC
Test Method - Dielectric Breakdown Voltage	ASTM D149
Volume Resistivity	>10 ¹² ohm-cm

Test Method - Volume Resistivity	ASTM D257
Dielectric Constant at 1 MHz	3.30
Test Method - Dielectric Constant	ASTM D257
Pressure Sensitive Adhesive	Single side adhesive