



HIGH PERFORMANCE THERMAL INTERFACE PRODUCTS

Tgard[™] 300 is a medium thermal performance insulator pad consisting of a ceramic high temperature silicone rubber coated on electrical fiberglass.

Tgard 300 is specifically designed for applications that require low component mounting forces. The unique formulation will enhance thermal performance which minimizes thermal resistance at low mounting forces. The unique coating formulation offers an excellent mating surface for low pressure clip mounting applications.

FEATURES AND BENEFITS

- High breakdown voltage of 6,000 volts AC
- Thermal resistance of 0.50[°] C-in²/watt at 50 psi
- Unique coating formulation offers low mounting forces
- Unifying benefits of thermal & electrical performance for general-purpose applications

APPLICATIONS

- Switching mode power supplies
- Industrial equipment
- Motor controls

PROPERTIES	TEST METHOD	METRIC VALUES		IMPERIAL VALUES			
ELECTRICAL PROPERTIES							
Dielectric withstand voltage 50mm probe for 30 sec	ASTM D149	4,500 volts DC		4,500 volts DC			
Dielectric breakdown voltage 50mm probe	ASTM D149	Avg >6,000 volts AC		Avg >6,000 volts AC			
Volume resistivity	ASTN D257	10 ¹² ohm-cm		10 ¹² ohm-in			
Dielectric constant @1Mhz	ASTN D257	3.3		3.3			
Electrical RTI temperature rating	UL746D	150°C		302°F			
MECHANICAL PROPERTIES							
Thickness		0.23 mm		0.009 in			
Hardness	ASTM D2240	75 Shore A		75 Shore A			
Tensile strength	ASTM D412	10 Mpa		1.5 Kpsi			
Elongation @ 45° to warp/fill	ASTM D412	20%		20%			
Elongation along width or length	ASTM D412	5%		5%			
Operating temperature range		-60° to 180°C		-76° to 356°F			
Color		Yellow		Yellow			
UL flammability rating	UL 94	V-0		V-0			
PRESSURE	UNITS	10 (69)	25 (172)	50 (345)	100 (689)	200 (1379)	400 (2758)
TOTAL THERMAL RESISTANCE							
Modified ASTM D5470	°C-in ² /watt	0.62	0.57	0.50	0.41	0.34	0.30
Modified ASTM D5470	°C-cm ² /watt	4.00	3.68	3.09	2.65	2.19	1.94
T0-220	°C/watt	1.17	0.92	0.83	0.81	0.80	0.76

Standard thickness: 9 mils (0.229 mm)

Configurations available:

- Sheet form, roll form and die-cut parts
- Single-side, pressure-sensitive adhesive on request

Standard options:

- Without adhesive (A0): 12 x 18" sheets, 12" x 65M, 12" x 30M roll or custom configuration
- With adhesive (A1): 11.75 x 18" sheets, 11.75" x 30M roll or custom configuration

THR-DS-Tgard-300_032515

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