

Part Number: 53-77-11

RoHS √ Compliant

Thermalsil™ III

RoHS Compliant

Thermally Conductive Silicone Rubber Insulators

The newest Thermalsil™ III formula has improved thermal conductivity, providing excellent thermal resistance. It is used as an electrically-isolating interface material composed of silicone elastomer binder with a thermally conductive filler. It is reinforced with glass cloth to resist tearing and cut-through due to burrs on transistors or heat sinks.

Thermalsil™ III eliminates the need for grease application and conforms to mounting surfaces under clamping pressure for optimum heat conduction.

Thermalsil™ III is .152mm (0.006") thick and grey green in color. A finely woven glass cloth provides the thinnest possible matrix for enhanced thermal resistance.

To order Thermalsil™ III with adhesive coated backing, add suffix "AC" to the part number. For example, 53-03-2AC.

Thermalsil™ III is available in any configuration with adhesive backing. Order by adding "AC" after the part number. For example: 53-03-2AC.

Thermalsil™ III

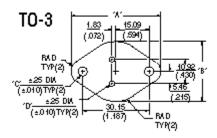
Property	Typical Value 25°C	Test Method					
Electrical							
Dielectric Constant	2.5@50 Hz 2.5@10 ³ Hz 2.5@10 ⁶ Hz	ASTM D150					
Dielectric Breakdown Voltage							
Volume Resistivity	5.7 x 10 ¹⁵ ohm-cm	ASTM D257					
Dielectric Dissipation Factor	.008@50 Hz .004 @10 ³ Hz .004 @10 ⁶ Hz	ASTM D150					
Physical							
Thickness	.15 + .03/05mm (0.006 + .001/002 in.)						
Color	Gray-Green						

Tensile Strength	6.1 x 10 ⁷ Pa (8786 psil)					
Hardness, Shore A	87					
Elongation	2% or less					
Thermal						
Thermal Conductivity	0.92 w/m °C					
Flame Resistance	UL 94V-0	UL card #E-58126 (S)				
Service Temperature	-60°C to 180°C (-76°F to 356°F)					

*Thickness:

4103: 1.78 (0.070) to 2.03 (0.080) 4104: 1.52 (0.060) to 2.03 (0.080)

Standard Thermalsil Configurations



Part Number	RoHS	Α	В	С	D
53-03-11	RoHS √ Compliant	41.81 (1.646)	28.58 (1.125)	3.96 (0.156)	2.36 (0.093)