Thermalsil III Part Number - 53-77-13G

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 cutthrough 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

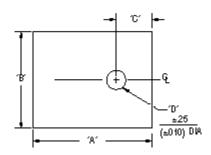
Property	Typical Value 25°C	Test Method				
Electrical						
Dielectric Constant	2.5@50 Hz 2.5@10 ³ Hz 2.5@10 ⁶ Hz	ASTM D150				
Dielectric Breakdown Voltage	26.3 x 10 ³ volts/mm (667 volts/mil) ASTM D-149	ASTM D149				
Volume Resistivity	5.7 x 10 ¹⁵ ohm-cm	ASTM D257				
Dielectric Dissipation Factor	.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)

TO-220



Part Number	RoHS	Α	В	С	D
53-77-13G	RoHS Compliant	18.03 (0.710)	12.70 (0.500)	4.06 (0.160)	3.58 (0.141)