

Product Data

Thermally Conductive Silicone Rubber TIA 216G

TIA216G is a 2-component, thermally conductive potting material. It's low viscosity allows the material to conform to intricate shapes of thermal interfaces and contributes to the reduction of contact interference in complex designs. TIA216G quickly cures to a soft rubber, gel with exposure to heat, and retains tacky adhesion on its cured surface.

KEY FEATURES

- Good thermal conductivity
- Low viscosity
- Fast cure with exposure to heat
- Room temperature cure possible
- Easy to use 1 : 1 mix ratio by weight and volume
- Repairable
- Non corrosive to metal
- UL 94V-0 (file number E56745)

TYPICAL PROPERTIES

UNCURED PROPERTIES		TIA216G (Part A)	TIA216G (Part B)
Appearance		Gray	White
Mix ratio by weight		1 : 1	
Viscosity Part A	Pa·s	9.5	
Viscosity Part B	Pa·s	6.6	
Viscosity after mixing	mPa·s	7.8	
Work life at 23 °C	Hours	2	
Cure Time @ RT	Hours	6	
Cure Time @ 70°C	Hours	0.5	

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CURED PROPERTIES (30 minutes @ 70°C)		
Appearance		Gray
Density (23°C)	g/cm ³	2.69
Hardness	Shore E	40
Thermal conductivity ^{*3}	W/mK	1.6
Volume Resistivity	MΩm/ (Ω.cm)	4.0x10 ⁶ / (4x10 ¹⁴)
Dielectric strength	kV/mm	20

Typical properties / data values - should not be used as specification.

HANDLING AND SAFETY

- Materials such as water, sulfur, nitrogen compounds, organic metallic salts, phosphorus compounds, etc. contained in the surface of the substrate can inhibit curing. A sample patch should always be conducted before proceeding to determine compatibility.
- Wear eye protection when handling uncured rubber as it can irritate eyes. In case of eye contact, immediately flush eyes well with water and contact a physician.
- Maintain adequate ventilation in the work place at all times.

STORAGE

- Store in a cool, dry place out of direct sunlight & keep out of the reach of children

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