

# Product Data

## Thermally Conductive Silicone Rubber **SilCool - TIA 213G**

**TIA213G** is a two-component, heat curable silicone rubber designed for thermally conductive applications. It's low viscosity allows the material to flow into narrow gaps, conform to intricate shapes of thermal interfaces and contributes to the reduction of contact interference in complex designs TIA213G quickly cures with exposure to heat; to form an elastic, thermally conductive rubber that helps relieve stress on critical electronic components.

### KEY FEATURES

- Soft, elastomeric rubber properties
- Convenient 1:1 mix ratio by weight
- Outstanding stress relief
- Heat accelerated or room temperature cure
- Good thermal conductivity
- Resistance to temperature extremes
- Non corrosive to metal

### TYPICAL PROPERTIES

UNCURED PROPERTIES		TIA213G (A)	TIA213G (B)
Appearance		Gray	White
Viscosity	mPa·s	8500	6500
Mix ratio by weight		1 : 1	
Viscosity after mixing	mPa·s	7000	
Work Life @ 23°C	Minutes	30	
Cure Time @ RT	Hours	24	
Cure Time @ 70°C	Hours	0.5	
CURED PROPERTIES (30 minutes @ 70°C)			
Appearance		Gray	
Density (23°C)	g/cm <sup>3</sup>	2.01	
Heat Cure Time (T90) at 70°C	Minutes	30	
Hardness (Type E)		45	
Thermal conductivity*3	W/mK	1.3	
Dielectric strength	kV/mm	18	

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.

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- 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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