

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/cm³	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.

Product Data

Thermally Conductive Silicone Rubber

SilCool - TIA 213G

- 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

Momentive and the Momentive logo are trademarks of Momentive Performance Materials Inc.

DISCLAIMER

The information provided herein was believed by Momentive Performance Materials Inc. (collectively with its subsidiaries, "Momentive") to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product, and to determine the suitability of the product for user's intended application or use. All products supplied by Momentive are subject to Momentive's standard terms and conditions of sale. **MOMENTIVE MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY MOMENTIVE.** except that the product shall conform to Momentive's specifications. Nothing contained herein constitutes an offer for the sale of any products