

Product Data

Thermally Conductive Silicone Rubber **SilCool TIA200R-G**

**PRELIMINARY
Datasheet**

TIA200R-G is a one component, heat curable silicone adhesive designed for thermally conductive application. TIA200R-G cures quickly upon exposure to heat, and adheres well to a wide variety of substrates.

KEY FEATURES

- Good thermal conductivity
- Fast cure with heating
- Easy to use
- Electrically insulated
- Primeless adhesion to many substrates
- No corrosive to metal

TYPICAL PROPERTIES

(JIS K 6249)

| UNCURED PROPERTIES (23 °C, 50%RH) | | TIA200R-G |
|-----------------------------------|-------------------|---------------------|
| Appearance | | Gray |
| Viscosity | Pa·s | 70.0 |
| Cure condition (120 °C) | min | 30 |
| Thixotropy | | 3.5 |
| CURED PROPERTIES (30min @ 120 °C) | | |
| Appearance | | Gray rubber |
| Density | g/cm ³ | 2.88 |
| Hardness (Shore A) | | 85 |
| Thermal conductivity*1 | W/(m·K) | 2.0 |
| Lap Shear Strength | MPa | 3.0 |
| Volume resistivity | MΩm | 4.8×10 ⁶ |
| Dielectric strength | kV/mm | 20 |

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

*1: Hot wire method. Typical properties are average data and are not to be used as or to develop product specifications.

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HANDLING AND SAFETY

- Part A and B each should be thoroughly mixed before use, because filler sedimentation may occur during storage.
- Deaerated the mixture to remove air entrapped during mixing.
- 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.

PACKAGING

- TIA200R-G 300ML Cartridge

STORAGE

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

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