

# SilCool\* TIA0220

## **Description**

One-component silicone adhesive that cures on exposure to atmospheric moisture at room temperatures to form a thermally conductive silicone rubber. The product offers corrosion-free adhesion to metals, including copper, plastics, ceramics, glass, etc. without the use of primers.

## **Key Features and Benefits**

- High thermal conductivity
- Low volatility: reduced low molecular siloxane content
- Non-corrosive to metals (including copper)
- One-component, fast alkoky cure
- Wide operating temperature range: -40 °C ~ +150 °C

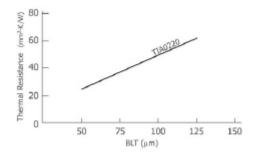
# Typical Physical Properties (J1S K 6249)

**Property** Unit Value **Uncured Properties** Semi-flowable, gray paste Appearance, Color Viscosity Pa⋅s 300 Tack free time (23 °C) min 10 Cured Properties (7d at 23°C, 50%RH) Thermal Conductivity W/m·K 2.2 mm<sup>2</sup>·K/W Thermal Resistance (BLT) 25 (50µm)

| Density   | g/m <sup>3</sup> | 2.87                  |
|---|------------------|-----------------------|
| Hardness (Type A)   |                  | 88                    |
| Tensile Strength  | MPa              | 5.2                   |
| Elongation  | %                | 40                    |
| Adhesive Strength   | MPa              | 4.2                   |
| Volume Resistivity  | MΩ·m             | 1.0 x 10 <sup>7</sup> |
| Dielectric strength                                       | kV/mm            | 20                    |
| Low Volatile Siloxane (D <sub>3</sub> - D <sub>10</sub> ) | wt%              | 0.002                 |

Typical property data values should not be used as or to develop prodcut specifications.

#### Thermal Resistance and BLT



## **Patent Status**

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

## **Product Safety, Handling and Storage**

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information

provided by the manufacturer of such other materials.

#### Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

### **Contact Information**

For product prices, availability, or order placement, contact our customer service at Momentive.com/CustomerService/

For literature and technical assistance, visit our website at: www.momentive.com

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