



SilCool* TIA0220

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 alkoxy cure
- Wide operating temperature range: -40~+150°C

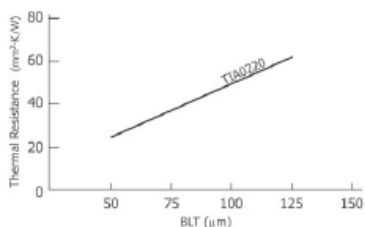
Typical Physical Properties

Uncured Properties		
Appearance / Color		Semi-flowable, gray paste
Viscosity	Pa·s	320
Tack free time (23 °C)	min	10
Cured Properties (7d @ 23°C, 50%RH)		
Thermal Conductivity	W/m·K	2.2
Thermal Resistance (BLT)	mm ² ·K/W	25 (50µm)
Density	g/m ³	2.88
Hardness (Type A)		88
Tensile Strength	MPa	5.2
Elongation	%	40
Adhesive Strength	MPa	4.2
Volume Resistivity	MΩ·m	1.0 x 10 ⁷

Dielectric strength	kV/mm	20
Low Volatile Siloxane (D3-D10)	wt%	0.002

Typical property data values should not be used as specifications.

Thermal Resistance and BLT



Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a 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 Material Safety Data Sheet (MSDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, and any special storage conditions required for safety. MSDS are available at www.momentive.com or, upon request, from any Momentive Performance Materials (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 by visiting momentive.com/ContactSilicones.

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

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 product.

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