



XE11-B5320

Product Title

XE11-B5320

Description

XE11-B5320 is a one-component paste, alkoxy cure, thermally conductive silicone adhesive sealant. This product cures at room temperature by reacting with moisture in the air to form an elastomeric rubber. XE11-B5320 silicone adhesive typically offers primerless adhesion to many substrates such as most metals, plastics, ceramics and glass without the use of a primer.

XE11-B5320 silicone adhesive is non-corrosive to metals and may be suitable for electrical/electronic applications. Typical applications for XE11-B5320 silicone adhesive include sealing and bonding for thermally conductive applications such as heat generating elements, regulators and rectifiers.

Key Features and Benefits

- Excellent thermal conductivity
- Low volatility; reduced low-molecular siloxane content
- One-component; ready to use
- Room temperature cure
- Neutral cure; non-corrosive to metals
- Low odor cure; releases an alcohol vapor during cure
- Excellent adhesion to most substrates

Typical Physical Properties

Uncured Properties	
Appearance	White, paste
Tack Free Time (23°C) min	5
Cured Properties (7 days @ 23°C/50%RH)	
Appearance	White, elastic rubber
Specific Gravity (23°C)	2.59
Hardness (Type A)	83
Tensile Strength MPa [psi]	4.1 [595]
Elongation %	50
Adhesive Strength ⁽¹⁾ MPa [psi]	1.4 [203]
Thermal Conductivity W/mK [cal/(s•cm•°C)]	1.3 [3.1 x 10 ⁻³]
Low Molecular Siloxane (D4–D10) wt %	0.01
Volume Resistivity MO•m [O•cm]	2.0 x 10 ⁻⁷ [2.0 x 10 ⁻¹⁵]
Dielectric Strength kV/mm (V/mil)	17 [431]
Dielectric Constant (60Hz)	2.6
Dissipation Factor (60Hz)	0.005

(1) Aluminum lap shear

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.

Processing Recommendations

Surface Preparation

Insure that surfaces to be sealed, coated, or bonded are clean and free of grease, lubricating oils, release agents and dirt. To optimize fast cure and good adhesion, substrates must be clean and dry before applying the RTV. Wipe away excess uncured material with a clean cloth. After curing, removal of material is more difficult.

Curing

This product cures at room temperature by reacting with atmospheric moisture. Whenever possible, a minimum of 25°C (77°F) and 50% relative humidity should be provided. Higher temperature and humidity will cause faster cures while lower temperatures and lower humidity will slow the cure considerably. This product cures from the outside (outer skin) inward, therefore, cure rate is also dependent on thickness of the material. It is not recommended to apply material thicker than 6 mm (1/4").

Bonding

This product offers primerless adhesion to many substrates. Maximum adhesion may take up to a week to develop.

Limitations

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

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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

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