

TSE 326M EX

Description

TSE326M EX is a one-component, heat curable silicone adhesive designed for high temperature applications. TSE326M EX adheres well to a variety of substrates, such as metals, plastics, ceramics and glass without the use of a primer.

Key Features and Typical Benefits

- Ready to use – one component
- Excellent high temperature resistance
- Heat accelerated cure
- Excellent adhesive properties; primerless adhesion to many types of substrates
- Non corrosive to metals

Typical Physical Properties

| <u>Property</u> | <u>Unit</u> | <u>Value</u> |
|-------------------------------------------|-------------------|------------------------|
| Uncured Properties | | |
| Appearance | | Flowable |
| Colour | | Reddish brown |
| Viscosity | Pa·s | 16 |
| Cured Properties (0.5hr at 200 °C) | | |
| Appearance | | Reddish brown |
| Density | g/cm ³ | 1.46 |
| Hardness | Shore A | 38 |
| Tensile Strength | MPa | 2.9 |
| Elongation | % | 180 |
| Aluminium Lap Shear | MPa | 1.5 |
| Thermal Conductivity | W/m·K | 0.41 |
| Volume Resistivity | Ω·cm | 2.0 x 10 ¹⁵ |
| Dielectric Strength | kV/mm | 22 |
| Dielectric Constant (60Hz) | | 3.3 |
| Dissipation Factor (60Hz) | | 0.02 |

Typical physical properties are average data and should not be used as or to develop product specifications.

General Instructions for Use

TSE326M EX is a single component addition curing ready to use adhesives. Materials such as water, sulphur, 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.

Cure Time vs. Temperature

Actual cure time will depend on the type and efficiency of the oven used, and the shape and heat capacity of the parts and containers. A sample test should be conducted to determine the appropriate cure time.

| <u>Temperature</u> | <u>Cure Time</u> |
|--------------------|------------------|
| 120 °C | 3 h |
| 150 °C | 1.5 h |
| 200 °C | 0.5 h |

Note: Test results. Actual results may vary.

Adhesion Capability**Suitable substrates:**

- Metal: Aluminum, Copper, Ni plated, Stainless Steel
- Plastics: PPS, PBT, Epoxy Resin, Polyester, Phenolic Resin
- Rubber: Heat cured silicone rubber
- Inorganics: Glass, Ceramics

Not suitable substrates

- Plastics: PP, PE, Fluorocarbon resin
- Rubber: RTV silicone rubber, Sulphur vulcanized rubber, Fluorocarbon rubber

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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