



TSE326M

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Description

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

Key Features and 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

| Typical uncured properties | | |
|--|-------------------|--------------------|
| Appearance | | Flowable |
| Colour | | Reddish brown |
| Viscosity | Pa·s | 16 |
| Typical cured properties(0,5hr @200°C) | | |
| Appearance | | Reddish brown |
| Density | g/cm ³ | 1.46 |
| Hardness | Shore A | 38 |
| Tensile strength | MPa | 2.9 |
| Elongation | % | 180 |
| Adhesive strength(Aluminium Lap shear) | MPa | 1.5 |
| Thermal conductivity | W/ m·K | 0.41 |
| Volume resistivity | Ohm·cm | 2·10 ¹⁵ |
| Dielectric strength | kV/mm | 22 |
| Dielectric constant @ 60Hz | | 3.3 |
| Dissipation factor @ 60Hz | | 0.02 |

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

Material Safety Data Sheets are available upon request from Momentive Performance Materials. Similar information for solvents and other chemicals used with the Momentive Performance Materials products should be obtained from your supplier. When solvents are used, proper safety precautions must be observed.

The warranted shelf life will be indicated by the 'use before date' on the associated documents with a minimum of 4 months when stored in the original unopened containers between **10°C or less**.

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

TSE 326M is a single component addition curing ready to use adhesive. Materials such as water, sulphur, nitrogen compounds, organic metallic salts, phosphorous 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.

| Temperature | Cure Time |
|-------------|-----------|
| 120°C | 3 h |
| 150°C | 1.5 h |
| 200°C | 0.5 h |

Limitations

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

Availability

TSE 326M is available in 1kg cans and 20kg pails.

Adhesion Capability

Suitable substrates:

Metal: Aluminium, 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

From automotive to healthcare, from electronics to construction, products from Momentive Performance Materials Inc. are practically everywhere you look. We are a global leader in silicones and advanced materials with a 70+ year heritage of innovation and being first to market – with performance applications that improve everyday life. By knowing our customers' needs and creating custom technology platforms for them, we provide science based solutions to help customers increase performance, solve product development issues and engineer better manufacturing processes.

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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