



TSE3664

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Description

TSE3664 is a two-component condensation cure silicone rubber designed for electric potting. TSE3664 cures at room temperature to form an elastic flame retardant rubber and adheres to various types of materials such as metal, plastics, glass and ceramics without the use of primers.

Key Features and Benefits

- Flame retardant: UL94V-0 recognized (File No. E56745)
- Low viscosity allows for excellent flowability
- Room temperature curable
- Fast cure
- Excellent deep section cure
- Excellent adhesive properties: primerless adhesion to many types of substrates
- No cure inhibition

Typical Physical Properties

(JIS K 6249)

UNCURED PROPERTIES	TSE3664(A)	TSE3664(B)
Appearance	Gray	Blue
Density (23°C) g/cm ³	1.41	1.08
Viscosity (23°C) mPa*s {cP}	4,000 {4,000}	15 {15}
Mixing Ratio by Weight	100:7.5	
Mix Ratio by Volume	100:10	
Viscosity after Mixing (23°C) mPa*s {cP}	3,000 {3,000}	
Pot Life (23°C) h	0.1	

CURED PROPERTIES (3 days @ 23°C, 50%RH)

Appearance	Elastic rubber, Gray
Density (23°C) g/cm ³	1.41
Hardness (Type A)	60
Tensile Strength MPa {kgf/cm ² }	3.0 {31}
Elongation %	70
Adhesive Strength*1 MPa {kgf/cm ² }	1.0 {10}

Thermal Conductivity ^{*2} W/m•K	0.42
Volume Resistivity MΩ•m {Ω•cm}	5.0x10 ⁷ {5.0x10 ¹⁵ }
Dielectric Strength kV/mm	26
Dielectric Constant (60Hz)	3.1
Dissipation Factor (60Hz)	0.01

*1 Glass Lap shear*2 In-house test method Typical property data values should not be used as specifications.

Potential Applications

- Potting of electric and communications parts
- Moisture proof sealing of meters
- Moisture proof coating of electric circuit boards

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

- Wear eye protection and protective gloves as required while handling the product.
- Maintain adequate ventilation in the work place at all times.
- Store in a cool dry place out of direct sunlight.
- Keep out of the reach of children.

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

- **Mixing** In case of filler sedimentation of (A) component during storage, mix it homogeneously before using. Select a mixing container 4-5 times larger than the volume of silicone rubber compound to be used. Weight out (A) and (B) with clean tools, thoroughly mix them, scraping the sides and the bottom of the container carefully to produce a homogenous mixture.
- **Deaeration and Curing** Air entrapped during mixing should be removed to eliminate voids in the cured rubber. Expose the mixed material to a vacuum of about 20mm of mercury. The material will expand, crest, and recede to about the original level as the bubbles break. Degassing is usually complete about two minutes after frothing ceases. Pour the material in the part, and leave it with the room temperature.

Limitations

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

Packaging

TSE3664(A)

- 1kg can available in case of 10
- 20kg pail available

TSE3664(B)

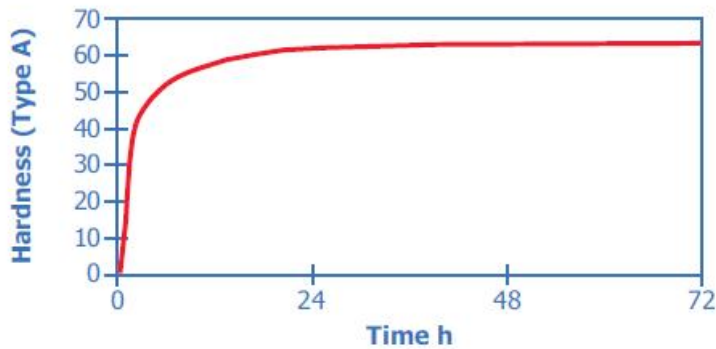
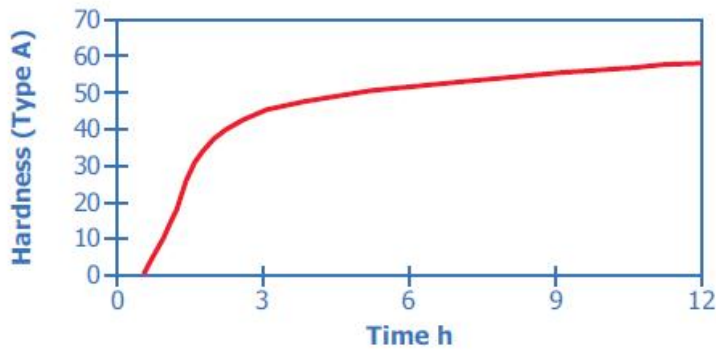
- 80g bottle available in case of 20
- 240g bottle available in case of 10
- 500g bottle available in case of 10
- 1.6kg can available in case of 6

Adhesion Capability

*Suitable substrates*Metals: Aluminum, Stainless steelPlastics: Epoxy resin, Polyester, Phenolic resinInorganics: Glass

*Unsuitable substrates*Plastics: PP, PE, Fluorocarbon resinRubber: Fluorocarbon rubber

Cure Property (23°C, 50%RH)



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](https://www.momentive.com/ContactSilicones).

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

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