

TSE3032

Description

TSE3032 is a two-component, low viscosity, transparent silicone rubber designed for electrical and electronic potting. The product cures at room temperature or by low temperature heat to a transparent elastic rubber with the addition of curing agents.

Key Features and Typical Benefits

- Low viscosity permits excellent potting
- Transparent appearance
- Cure rate can be accelerated by heat
- No reactive by-products
- Excellent resistance to temperature extremes

Typical Physical Properties

(JIS K 6249)

Property	Unit	Value	
		TSE3032(A)	TSE3032(B)
UNCURED PROPERTIES			
Appearance		Transparent liquid	
Viscosity (23 °C)	Pa•s {P}	4.2 {42}	0.7 {7}
Mixing Ratio by Weight		100:10	
Viscosity after Mixing (23 °C)	Pa•s {P}	4.0 {40}	
Work Life ⁽¹⁾ (23 °C)	h	4	
CURED PROPERTIES (1h at 100 °C)			
Appearance		Transparent elastic rubber	
Density (23 °C)	g/cm ³	1.02	
Hardness (Type A)		35	
Tensile Strength	MPa {kgf/cm ² }	4.5 {46}	
Elongation	%	210	
Refractive Index (n _D ²⁵)		1.406	
Linear Expansion ⁽¹⁾	1/K	2.3 x 10 ⁻⁴	
Thermal Conductivity ⁽¹⁾	W/m•K	0.17	
Volume Resistivity	MΩ•m {Ω•cm}	2.0 x 10 ⁷ {2.0 x 10 ¹⁵ }	
Dielectric Strength	kV/mm	21	
Dielectric Constant (60Hz)		2.8	
Dissipation Factor (60Hz)		0.001	

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

⁽¹⁾In-house test method

Potential Applications

- Potting of electronics parts requiring resistance to temperature extremes
- Potting of high voltage parts
- Moisture-proof coating of electronic circuit boards
- Potting of various modules

Curing Properties

Temperature °C	Cure Time (h)
70	4
100	1
150	0.25

Note: Test data. Actual results may vary.

Processing Recommendations

- All parts should be as clean and dry as possible prior to application.
- Materials such as water, sulfur, 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.
- Wear eye protection and protective gloves at all times when working with this product.
- Use the product in a well-ventilated area.

Packaging

- TSE3032(A): 1kg can available in cases of 10, 15kg pail available
- TSE3032(B): 100g bottle available in cases of 20, 500g bottle available in cases of 10, 15kg can available

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

- Store in a cool and dry place out of direct sunlight.
- Keep out of the reach of children

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

DISCLAIMER:

THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC. AND ITS SUBSIDIARIES AND AFFILIATES (COLLECTIVELY “SUPPLIER”), ARE SOLD SUBJECT TO SUPPLIER’S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN SUPPLIER’S STANDARD CONDITIONS OF SALE, SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN. Each user bears full responsibility for making its own determination as to the suitability of Supplier’s materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Supplier’s products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Supplier’s standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Supplier. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Supplier covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

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