

TSE3032

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 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: no concerns regarding corrosion
- Excellent resistance to temperature extremes

Applications

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

Typical Physical Properties

(JIS K 6249)

Uncured Properties		TSE3032(A)	TSE3032(B)
Appearance		Transparent liquid	
Viscosity (23 °C)	Pa*s{P}	4.2 {42}	0.7{7}
Mix ratio by weight		100: 10	
Viscosity after mixing (23 °C)	Pa*s{P}	4.0 {40}	
Work life* (23 °C)	h	4	
Cured Properties (1h at 100 °C)			
Appearance		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/K	2.3 x 10 ⁻⁴
Thermal conductivity*	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

*In-house test method Typical physical properties are average data and should not be used as or to develop product specifications.

Curing Properties

Temperature °C	Time h
70	4
100	1
150	0.25

General Instructions for Use

- 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.
- TSE3032(B) generates flammable gas on contact with acids, bases or oxidizing materials.
- Wear eye protection and protective gloves at all times when working with this product.
- Use the product in a well ventilated area.

Storage

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

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

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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

Email

commercial.services@momentive.com

Telephone

Americas	Latin America	EMEAI- Europe, Middle East, Africa & India	ASIA PACIFIC
+1 800 295 2392	Brazil	Europe	China
Toll free*	+55 11 4534 9650	+390510924300	800 820 0202
+704 805 6946	Direct Number	Direct number	Toll free
Direct Number			+86 21 3860 4892
			Direct number
*All American countries	Mexico	India, Middle East & Africa	Japan
	+52 55 2169 7670	+ 91 44 71212207	+81 3 5544 3111
	Direct Number	Direct number*	Direct number
		*All Middle Eastern countries, Africa, India,	Korea
			+82 2 6201 4600

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