



TSE 3070

**Room Temperature Cure Silicone Potting Gel**

**Product description**

**TSE 3070** is a two-component, high elongation silicone gel for electronic potting applications. This product cures at room temperature to a soft, tacky gel with the addition of curing agent. The soft nature and cushioning effect of this product provides excellent protection of electronic assemblies from external humidity, mechanical shock and vibration.

**Key Performance Properties**

- Convenient 1:1 mix ratio by weight
- High elongation gel
- Low viscosity – easily pourable
- Room temperature curable and heat accelerated cure
- Soft, tacky and sticky gel
- Absorbs shock and protects delicate mechanical components from vibration
- Excellent electrical properties
- no reactive by-products ; no concerns regarding corrosion

**Applications**

- Electrical and electronic potting such as hybrid IC and power module
- Mechanical cushioning and vibration damping material for delicate assemblies

**Typical Product Data**

Uncured Properties		TSE3070 A	TSE 3070 B
Appearance		Transparent	
Viscosity (23°C)	Pa·s	0.82	0.78
After mixing	Pa·s	0.8	
Mix ratio by weight		1:1	
Work life (23°C)	h	4	
Density	g/cm <sup>3</sup>	0.98	
<b>Cured Properties</b>		(0.5h @ 70°C)	
Appearance		Transparent Gel	
Penetration		65	
Volume resistivity	ohm · cm	1.0 x 10 <sup>15</sup>	
Dielectric strength	kV/mm	18	
Dielectric constant (60Hz)		2.7	
Dielectric loss (60Hz)		0.002	
Volume expansion	1/K	1 x 10 <sup>-3</sup>	
Thermal conductivity	W/m.K	0.17	



- Specifications** Typical product data values should not be used as specification. Assistance and specifications are available by contacting Momentive performance materials Technical Service RTV1 and RTV2.
- Instructions for Use** 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.  
All parts should be clean and dry prior to applications.
- Handling and Safety** 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.
- Storage and Warranty Period** The shelf life will be indicated by the 'use before date' on the associated documents with a minimum of 3 months when stored in the original unopened containers at temperatures between 2 and 43 °C.
- Availability** TSE 3070 is available as 2 and 40kg kits.



PRINCIPAL LOCATIONS – Regional Information

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