

Product Data

Thixotropic Silicone Gel TSE3067

TSE3067 is a two-component, thixotropic silicone gel designed for electronic coating 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 FEATURES

- ◆ Thixotropic consistency
- ◆ Convenient 1:1 mix ratio by weight
- ◆ Room temperature curable and heat accelerated cure
- ◆ Soft, tacky and sticky gel
- ◆ Absorbs shock and protects delicate mechanical components from vibration
- ◆ No reactive by-products: no concerns regarding corrosion
- ◆ Excellent electrical properties
- ◆ Excellent resistance to temperature extremes

APPLICATIONS

- ◆ Electrical and electronic parts coating
- ◆ Connector sealing

TYPICAL PROPERTY DATA

UNCURED PROPERTIES		TSE3067(A)	TSE3067(B)
Appearance		Milky white	Blue
Viscosity (23°C)	Pa·s {P}	3.0 {30}	4.0 {40}
Mix ratio by weight		1:1	
Viscosity after mixing (23°C)	Pa·s {P}	20.0 {200}	
Work life (23°C)	h	1.5	
CURED PROPERTIES (0.5h @ 70°C)			
Appearance		Blue, Gel	
Density (23°C)	g/cm ³	1.01	
Penetration (JIS K 6249)		65	
Volume expansion	1/K	1x10 ⁻³	
Thermal conductivity	W/(m·K) {cal/(cm·s·°C)}	0.17 {4.1x10 ⁻⁴ }	
Volume resistivity	MΩ·m {Ω·cm}	1.0x10 ⁷ {1.0x10 ¹⁵ }	

Dielectric strength	kV/mm	20
Dielectric constant (60HZ)		2.8
Dissipation factor (60HZ)		0.001

Typical property data values should not be used as specifications.

CURE RATE

Temperature °C	Time h
70	0.5
50	1
25	24
10	100

INSTRUCTIONS FOR USE

1. All parts should be as clean and dry as possible prior to applications.
2. Weigh out (A) and (B) to the clean container 4 - 5 times larger than the volume of silicone rubber compound to be used.
3. Mix (A) and (B) thoroughly with clean tools.
4. Deaerate the mixture under vacuum to remove air entrapped during mixing.
5. Apply and cure at room temperature or by heating.

Note: 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.

HANDLING AND SAFETY

- ◆ Wear eye protection and protective gloves as required while handling the product.
- ◆ Maintain adequate ventilation in the work place at all times.

STORAGE

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

PACKAGING

TSE3067(A)

- ◆ 1kg can available in cases of 10
- ◆ 180kg drum available

TSE3067(B)

- ◆ 1kg can available in cases of 10
- ◆ 180kg drum available

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FOR INDUSTRIAL USE ONLY

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Momentive Performance Materials Japan LLC

<http://www.momentive.com>

Technical Answer Center (Japan): Phone: +81-276-20-6182 FAX: +81-276-31-6259
Tokyo Head Office: Phone: +81-3-5544-3111 FAX: +81-3-5544-3122