

Product Data

Two-Component Room temperature cure Silicone Adhesive TSE3351

TSE3351 is a two-component, addition cure, semi-flowable silicone adhesive, which cures to a very soft rubber at room temperature or with heat in a short period of time. This product adheres well to a variety of substrates, such as metals, plastics, ceramics and glass without the use of a primer.

KEY FEATURES

- ◆ Convenient 1:1 mix ratio by weight
- ◆ Semi-flowable type
- ◆ Cures to a very soft rubber
- ◆ Long pot life
- ◆ Cures and adheres at room temperature or with heat in a short period of time
- ◆ Excellent primerless adhesion to many substrates
- ◆ No corrosion to metals

TYPICAL APPLICATIONS

- ◆ Adhesive and seal for electric and electronic parts
 - Semiconductor modules, automotive electronic components and parts, etc

TYPICAL PROPERTY DATA

(JIS K 6249)

UNCURED PROPERTIES		TSE3351(A)	TSE3351(B)
Appearance		Translucent, paste	Translucent, paste
Viscosity (23°C)	Pa·s {P}	35 {350}	35 {350}
Mix ratio by weight		1:1	
Viscosity after mixing (23°C)	Pa·s {P}	40 {400}	
Pot life (23°C)	h	2	
CURED PROPERTIES (0.5h @ 80°C)			
Appearance		Translucent, elastic rubber	
Density (23°C)	g/cm ³	1.02	
Hardness (Type A)		21	
Tensile strength	MPa {kgf/cm ² }	0.7 {7}	
Elongation	%	320	
Adhesive strength*	MPa {kgf/cm ² }	0.5 {5}	
Volume resistivity	Ω·cm	2.5×10 ¹⁴	
Dielectric strength	kV/mm	23	
Dielectric constant (60Hz)		2.7	
Dissipation factor (60Hz)		0.001	

* PPS lap shear

Typical property data values should not be used as specifications.

ADHESION PROPERTIES

TEMPERATURE °C	23		50	80
CURE TIME h	36	72	3	0.5
Aluminum	○	○	○	○
Copper	○	○	○	○
Brass	○	○	○	○
Stainless steel	△	△	△	○
Mild steel	○	○	○	○
PPS	×	○	○	○
PBT	○	○	○	○
PET	○	○	○	○
Polycarbonate	○	○	○	○
Phenol resin	○	○	○	○
Polyester /glass	○	○	○	○
Epoxy/glass	○	○	○	○
ABS	○	○	○	○
Nylon-6	○	○	○	○
Nylon-66	○	○	○	○
Polystyrene	○	○	○	○
Rigid PVC	○	○	○	○
Acryl resin	×	×	×	×
Glass	○	○	○	○

Note ○: Cohesive failure ×: Adhesive failure △: Cohesive/Adhesive failure

INSTRUCTION FOR USE

1. Weigh out (A) and (B) to the clean container 3 - 4 times larger than the volume of silicone rubber compound to be used.
2. Mix (A) and (B) thoroughly with clean tools.
3. Deaerate the mixture under vacuum to remove air entrapped during mixing.
4. Apply and cure at room temperature or with heat.

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 preliminary test should always be conducted before proceeding to determine compatibility.

HANDLING AND SAFETY

- ◆ Wear eye protection and protective gloves at all times when working with this 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

- ◆ TSE3351(A): 18kg pail available
- ◆ TSE3351(B): 18kg pail available

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FOR INDUSTRIAL USE ONLY

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