

Silicone Potting Rubber

TSE3032 YE5822

TSE3032 and YE5822 are two-component, low viscosity, transparent silicone rubber designed for electrical and electronic potting. These products cure at room temperature to transparent elastic rubber with the addition of curing agents.

KEY FEATURES

- ◆ 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 PROPERTY DATA

UNCURED PROPERTIES		TSE3032(A)	TSE3032(B)	YE5822(A)	YE5822(B)
Appearance		Transparent Liquid		Transparent Liquid	
Viscosity (23°C)	Pa·s {P}	4.2 {42}	0.7 {7}	1.2 {12}	0.2 {2}
After mixing (23°C)	Pa·s {P}	4.0 {40}		1.0 {10}	
Mix ratio by weight		100 : 10		100 : 10	
Work life (23°C)	h	4		1	
CURED PROPERTIES (1hr@100°C)		TSE3032		YE5822	
Appearance		Elastic rubber		Elastic rubber	
Specific gravity (23°C)		1.02		0.97	
Hardness (TypeA)		35		27	
Tensile strength	Mpa {kgf/cm ² }	4.5{46}		-	
Elongation	%	210		-	
Linear expansion	1/K	2.3x10 ⁻⁴		2.5x10 ⁻⁴	
Thermal conductivity	W/m·K	0.17		0.17	
Volume resistivity	MΩ·m {Ω·cm}	2.0x10 ⁷ {2.0x10 ¹⁵ }		2.0x10 ⁷ {2.0x10 ¹⁵ }	
Dielectric strength	kV/mm	21		21	
Dielectric constant (60Hz)		2.8		2.8	
Dielectric loss (60Hz)		0.001		0.001	

TSE3033 / YE5822

GENERAL INSTRUCTIONS FOR USE

- ◆ 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.
- ◆ Maintain adequate ventilation in the work place at all times.
- ◆ Keep out of the reach of children.
- ◆ Store in a cool dry place out of direct sunlight.

PACKAGING

TSE3032(A)	1kg can available in cases of 10 cans 15kg pail available by the pail
TSE3032(B)	100g bottle available in cases of 20 bottles 500g bottle available in cases of 10 bottles
YE5822(A)	1kg can available in cases of 10 cans
YE5822(B)	100g bottle available in cases of 20 bottles

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