

# Silicone Potting Rubber

# TSE3032 YE5822

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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 <sup>2</sup> }	4.5{46}		-	
Elongation	%	210		-	
Linear expansion	1/K	2.3x10 <sup>-4</sup>		2.5x10 <sup>-4</sup>	
Thermal conductivity	W/m·K	0.17		0.17	
Volume resistivity	MΩ·m {Ω·cm}	2.0x10 <sup>7</sup> {2.0x10 <sup>15</sup> }		2.0x10 <sup>7</sup> {2.0x10 <sup>15</sup> }	
Dielectric strength	kV/mm	21		21	
Dielectric constant (60Hz)		2.8		2.8	
Dielectric loss (60Hz)		0.001		0.001	

# TSE3033 / YE5822

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## 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

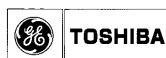
<b>TSE3032(A)</b>	1kg can available in cases of 10 cans 15kg pail available by the pail
<b>TSE3032(B)</b>	100g bottle available in cases of 20 bottles 500g bottle available in cases of 10 bottles
<b>YE5822(A)</b>	1kg can available in cases of 10 cans
<b>YE5822(B)</b>	100g bottle available in cases of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

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## **FOR INDUSTRIAL USE ONLY**

*It is the responsibility of the user to determine the suitability of any GE Toshiba Silicones product for any intended application. NEVER USE ANY GE TOSHIBA SILICONES PRODUCT FOR IMPLANTATION OR INJECTION INTO THE HUMAN BODY. Specifications are available by contacting GE Toshiba Silicones. Typical property data values should not be used as specifications. Inasmuch as GE Toshiba Silicones Company, Ltd. has no control over the use to which others may put the material, it does not guarantee that the same results as those described herein will be obtained. Each user of the material should make his own tests to determine the suitability of the material for his own particular use. Statements concerning possible or suggested uses of the materials described herein are not to be construed as constituting a license under any GE Toshiba Silicones patent covering use or as recommendations for use of such materials in the infringement of any patent. Material Safety Data Sheets are available upon request from GE Toshiba Silicones. The contents of this catalog are subject to change without notice. No part of this data may be reproduced without the prior approval of GE Toshiba Silicones.*



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