

# Silicone Potting Rubber

# TSE3337

**TSE3337** is a two-component, heat curable silicone potting rubber designed for high strength use. This product has good flowability and adheres well to almost substrates without the use of a primer.

## KEY FEATURES

- ◆ Convenient 1:1 mix ratio by weight
- ◆ High strength rubber
- ◆ Excellent thermal conductivity
- ◆ Excellent adhesive properties ; primerless adhesion to many types of substrates
- ◆ Resistance to temperature extremes
- ◆ Non-corrosive to metals

## APPLICATIONS

- ◆ Potting of electronic parts
- ◆ Potting of high voltage parts
- ◆ Moisture proof coating of electronic circuit boards

## TYPICAL PROPERTY DATA

UNCURED PROPERTIES	TSE3337		
	(A)	(B)	
Appearance	Black	White	
Viscosity (23°C)	Pa · s {P}	55 {550}	26 {260}
After mixing (23°C)	Pa · s {P}	40 {400}	
Mix ratio by weight	1 : 1		
Work life (23°C)	4		
CURED PROPERTIES (1hr@120°C)		TSE3337	
Appearance	Elastic rubber, Black		
Specific gravity (23°C)	1.16		
Hardness (Type A)	55		
Tensile strength	MPa {kgf/cm <sup>2</sup> }	6.4 {65}	
Elongation	%	270	
Adhesive strength*	MPa {kgf/cm <sup>2</sup> }	3.9 {40}	
Volume resistivity	MΩ · m {Ω · cm}	2.0 × 10 <sup>6</sup> {2.0 × 10 <sup>14</sup> }	
Dielectric strength	kV/mm	25	
Dielectric constant (60HZ)	3.4		
Dissipation factor (60HZ)	0.01		
Volume expansion	1/K	2.0 × 10 <sup>-4</sup>	
Thermal conductivity	W/(m · K) {cal/(cm · s · °C)}	0.29 {6.5 × 10 <sup>-4</sup> }	

\* Aluminum lap shear

Typical property data values should not be used as specifications. Assistance and specifications are available by contacting GE Toshiba Silicones Commercial Office.

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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.
- ◆ All parts should be as clean and dry as possible prior to applications.
- ◆ Wear eye protection and protective gloves at all times when working with this product.

## STORAGE

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

## PACKAGING

<b>TSE3337(A)</b>	1kg can available in cases of 10 cans
<b>TSE3337(B)</b>	1kg can available in cases of 10 cans

TSE3337 E  
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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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