## Product Data —

# Low Compression Set Silicone Rubber Compound TSE270 series

TSE270 series is a low compression set peroxide cured silicone rubber compound for molding.

### **KEY FEATURES**

- ♦ Low compression set
- ♦ No post cure
- ♦ 40, 50, 60 and 70 durometer grades available

### **APPLICATIONS**

- ♦ Rolls
- O-rings
- ♦ Gaskets
- Packing
- ♦ Thick-section parts

### TYPICAL PROPERTY DATA

(JIS K 6249)

PROPERTIES		TSE270 -4U	TSE270 -5U	TSE270 -6U	TSE270 -7U
UNCURED PROPERTIES					
Appearance		White	White	White	White
Williams plasticity		160	190	210	260
CURED PROPERTIES (Press cure 10min @ 170°C)					
TC-8 curing agent	%	0.5	0.5	0.5	0.5
MECHANICAL PROPERTIES					
Specific gravity (23°C)		1.08	1.18	1.29	1.39
Hardness (Type A)		40	50	60	70
Tensile strength	MPa {kgf/cm <sup>2</sup> }	4.8 {49}	5.9 {60}	6.7 {68}	6.7 {68}
Elongation	%	330	300	260	260
Tear strength (Angle)	N/mm {kgf/cm}	19 {19}	18 {18}	17 {17}	20 {20}
Linear shrinkage	%	3.9	3.2	3.6	2.8
Compression set*	%	6	9	7	9
ELECTRICAL PROPERTIES					
Volume resistivity	$M\Omega ext{-}m$	$1.0 \times 10^{8}$	$5.0 \times 10^{7}$	$1.0 \times 10^{7}$	$7.0 \times 10^{7}$
Dielectric strength	kV/mm	24	25	26	26
HEAT RESISTANCE (72h@250°C)					
Hardness change		+2	-2	+1	0
Tensile strength change	%	-8	-12	-12	-14
Elongation change	%	+11	+5	0	-22

<sup>\*: 180°</sup>C, 22h

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

### HANDLING AND SAFETY

- Wear eye protection and protective gloves when handling this product.
- Cure only where appropriate ventilation systems exist.

### STORAGE

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

### **PACKAGING**

20kg box

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### FOR INDUSTRIAL USE ONLY

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GE Toshiba Silicones Co., Ltd. (Tokyo Head Office)

GE Toshiba Silicones (Hong Kong) Co., LTD GE Toshiba Silicones (Singapore) PTE. Ltd. Taiwan Office

Phone: 81-3-3479-5355 FAX: 81-3-3479-2944 6-2-31 Roppongi, Minato-ku, Tokyo 106-8550, Japan Phone: 852-2629-0888 FAX: 852-2629-0803 Phone: 65-326-3900 FAX: 65-326-3946 Phone: 886-2-719-0510 FAX: 886-2-2719-9903