

## Product Data

# High Durometer Translucent Silicone Rubber Compound TSE2267U, TSE2277U, TSE2287U, TSE2297U

TSE2267U, TSE2277U, TSE2287U and TSE2297U are high durometer translucent peroxide cured silicone rubber compounds for molding.

### KEY FEATURES

- ◆ High durometer
- ◆ Translucent appearance
- ◆ 60, 70, 80, 90 durometer grades available
- ◆ Flame retardant: TSE2277U is recognized with UL94HB flame rating. (File No. E56745)

### APPLICATIONS

- ◆ Transilluminated type key unit for cellular phones
- ◆ Keyboard for musical instruments
- ◆ O-rings, gaskets, diaphragms, boots, sheets

### TYPICAL PROPERTY DATA

(JIS K 6249)

PROPERTIES	TSE2267U	TSE2277U	TSE2287U	TSE2297U
<b>UNCURED PROPERTIES</b>				
Appearance	Milky white, translucent			
Williams plasticity	260	320	360	500
<b>CURED PROPERTIES (Press cure 10min @170°C; Post cure 4h @ 200°C)</b>				
TC-8 curing agent %	0.5	0.5	0.5	0.5
<b>MECHANICAL PROPERTIES</b>				
Density g/cm <sup>3</sup>	1.21	1.22	1.24	1.28
Linear shrinkage %	3.8	3.8	3.8	3.8
Hardness (Type A)	60	70	80	90
Tensile strength MPa {kgf/cm <sup>2</sup> }	10.0 {102}	9.4 {96}	7.6{78}	7.1 {72}
Elongation %	390	320	180	300
Tear strength (Angle) N/mm {kgf/cm}	29{30}	28 {29}	24 {24}	25 {25}
Compression set %	24	28	25	35
<b>ELECTRICAL PROPERTIES</b>				
Volume resistivity Ω·cm	$6.0 \times 10^{14}$	$1.0 \times 10^{15}$	$8.0 \times 10^{14}$	$3.0 \times 10^{15}$
Dielectric strength kV/mm	23	23	24	23
<b>HEAT RESISTANCE (72h @ 200°C)</b>				
Hardness change	-1	+5	+4	+6
Tensile strength change %	-22	-23	-21	-29
Elongation change %	-10	-31	-20	-22

\* 180°C, 22h

Typical property data values should not be used as specifications.

## ADDITIVE

ME400-AY is an anti yellowing additive for silicone elastomers. Recommended level is 1.0 part per 100 parts of compound with curing agent, and may be adjusted lower or higher depending on formulation and properties desired.

## 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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