

Product Data

High Tear Strength Silicone Rubber TSE260 series

TSE260 series is a high tear strength peroxide cured silicone rubber for molding.

KEY FEATURES

- ◆ Excellent tear strength
- ◆ Translucent

APPLICATIONS

Extremely tear resistant parts:

- ◆ Diaphragms
- ◆ O-rings
- ◆ Gaskets
- ◆ Boots
- ◆ Baby bottle nipples

TYPICAL PROPERTY DATA

(JIS K 6249)

PROPERTIES	TSE260-3U	TSE260-5U	TSE260-7U
UNCURED PROPERTIES			
Appearance	Translucent	Milky white, Translucent	
Williams plasticity	160	210	320
CURED PROPERTIES (Press cure 10min @170°C; Post cure 4h @ 200°C)			
TC-8 curing agent %	0.3	0.3	0.6
MECHANICAL PROPERTIES			
Density (23°C) g/cm ³	1.09	1.13	1.18
Hardness (Type A)	30	55	70
Tensile strength MPa {kgf/cm ² }	10.0 {102}	11.4 {116}	11.5 {117}
Elongation %	900	680	540
Tear strength (Crescent) N/mm {kgf/cm}	32 {33}	33 {34}	34 {35}
Linear shrinkage %	4.1	4.4	4.3
Compression set* %	28	24	26
ELECTRICAL PROPERTIES			
Volume resistivity M \cdot m	3.0 \diamond 10 ⁸	3.0 \diamond 10 ⁸	3.0 \diamond 10 ⁸
Dielectric strength kV/mm	28	30	27
HEAT RESISTANCE (72h @ 200°C)			
Hardness change	+1	+9	+6
Tensile strength change %	-36	-21	-21
Elongation change %	-32	-45	-43

*: 180°C, 22h

Typical property data values should not be used as specifications.

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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Momentive Performance Materials Japan LLC

<http://www.momentive.com>

Technical Answer Center (Japan): Phone: +81-276-20-6182 FAX: +81-276-31-6259
Tokyo Head Office: Phone: +81-3-5544-3111 FAX: +81-3-5544-3122