____ 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, 70 and 80 durometer grades available

APPLICATIONS

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

TYPICAL PROPERTY DATA

(JIS K 6249)

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PROPERTIES		TSE270 -4U	TSE270 -5U	TSE270 -6U	TSE270 -7U	TSE270 -8U
UNCURED PROPERTIES						
Appearance		White	White	White	White	White
Williams plasticity		160	190	210	260	270
CURED PROPERTIES (Press cure 10min @ 170°C)						
TC-8 curing agent	%	0.5	0.5	0.5	0.5	0.5
MECHANICAL PROPERTIES						
Density (23°C)	g/cm ³	1.08	1.18	1.29	1.39	1.43
Hardness (Type A)		40	50	60	70	80
Tensile strength	MPa {kgf/cm²}	4.8 {49}	5.9 {60}	6.7 {68}	6.7 {68}	6.3 {64}
Elongation	%	330	300	260	260	190
Tear strength (Angle)	N/mm {kgf/cm}	19 {19}	18 {18}	17 {17}	20 {20}	10 {10}
Linear shrinkage	%	3.9	3.2	3.6	2.8	2.3
Compression set*	%	6	9	7	9	17
ELECTRICAL PROPERTIES						
Volume resistivity	$\Omega ext{-cm}$	1.0×10 ¹⁶	5.0×10 ¹⁵	1.0×10 ¹⁵	7.0×10 ¹⁵	1.0×10 ¹⁵
Dielectric strength	kV/mm	24	25	26	26	22
HEAT RESISTANCE (72h @ 250°C)						
Hardness change		+2	-2	+1	0	0
Tensile strength change	%	-8	-12	-12	-14	-20
Elongation change	%	+11	+5	0	-22	-20

^{*: 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

Issued Jan. 2000/2nd revised Sep. 2005, TSE270 series E

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