

Precision Polymer S70F

Silicone

Precision Polymer Engineering Ltd.

Message:

Low Compression Set, Red Silicone Rubber, 66-75 °IRHD. Silicone rubber having both methyl and vinyl substituent groups on the polymer chain. Compounded in accordance with FDA requirements. Low compression set grade, offering excellent heat resistance and low temperature flexibility. Used primarily for dry heat static seals, low physical strength and poor abrasion resistance prevents dynamic sealing.

General Information			
Features	Low compressive deformability		
	Flexibility at low temperatures		
	Heat resistance, high		
Uses	Seals		
Agency Ratings	FDA not rated		
Appearance	Red		
Hardness	Nominal Value		Test Method
IRHD Hardness	73		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	6.50	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	220	%	ASTM D412, ISO 37
Compression Set			
175°C, 22 hr	25	%	ASTM D395B
175°C, 22 hr ¹	25	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (200°C, 70 hr)	13	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air (200°C, 70 hr)	-25	%	ASTM D412, ISO 37
Change in IRHD Hardness in Air (200°C, 70 hr)	3.0		ASTM D573, ISO 188
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	250	°C	
Additional Information			
Minimum Operating Temperature: -60°C (-76°F)			
NOTE			
1.	Type B		

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