

Precision Polymer S40H

Silicone

Precision Polymer Engineering Ltd.

Message:

Silicone Rubber, 35-45 °IRHD. Silicone rubber having both methyl and vinyl substituent groups on the polymer chain. Formulated using only those ingredients determined by the United States Federal Food and Drug Administration (FDA) to be in accordance with Code of Federal Regulations, Title 21 (CFR21), Section 177.2600. ASTM & ISO designation = VMQ.

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	Flexibility at low temperatures		
	Heat resistance, high		
Uses	Seals		
Agency Ratings	FDA 21 CFR 177.2600		
Hardness	Nominal Value		Test Method
IRHD Hardness	40		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	9.00	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	570	%	ASTM D412, ISO 37
Compression Set			
175°C, 24 hr	25	%	ASTM D395B
175°C, 24 hr ¹	25	%	ISO 815
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	250	°C	
Low Temperature Resistance - Non-brittle after 3 mins	-60	°C	
Additional Information	Nominal Value	Unit	
Minimum Operating Temperature: -60°C (-76°F)			
NOTE			
1.	Type B		

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