

Precision Polymer S70H

Silicone

Precision Polymer Engineering Ltd.

Message:

White Silicone Rubber, 68-78 °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). Water and n-Hexane extraction tested in accordance with Code of Federal Regulations Title 21 (CFR21), Section 177.2600. Also complies with the requirements of USP 29, NF 24 2006: <87> Biological Reactivity Test ‘in vitro’ and USP 26, NF 21, 2003: <88> Biological Reactivity Tests ‘in vivo’ Class VI. 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		
	USP 26		
	USP 29		
Appearance	White		
Hardness	Nominal Value		Test Method
IRHD Hardness	70		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	7.00	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	280	%	ASTM D412, ISO 37
Compression Set			
70°C, 24 hr	20	%	ASTM D395B
70°C, 24 hr ¹	20	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (70°C, 168 hr)	-20 - 20	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air (70°C, 168 hr)	-30 - 30	%	ASTM D412, ISO 37
Change in IRHD Hardness in Air (70°C, 168 hr)	-5.0 - 5.0		ASTM D573, ISO 188
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			

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

