

Precision Polymer Engineering S70H Silicone Rubber

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE) , Silicone

Material Notes:

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. Formulated to BS2494 Type 'W' and Water Research Council (WRC) tested in accordance with BS6920 (WRC approval 9910521). 'Items which have passed full tests of effects on water quality' (for use in potable water applications). Also complies with the requirements of USP 25, NF20, 2002, Class 6. ASTM & ISO designation = VMQ. Applications: Excellent heat resistance and low temperature flexibility. Used primarily for dry heat static seals. Low physical strength and poor abrasion resistance prevents dynamic sealing.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-S70H-Silicone-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	77	77	°IRHD; ASTM D1415
	72 - 82	72 - 82	°IRHD, ±5 change after 168 hours @ 70°C; ASTM D1415
Tensile Strength, Yield	9.00 MPa	1310 psi	ASTM D412
	7.20 - 10.8 MPa	1040 - 1570 psi	±20% change after 168 hours @ 70°C; ASTM D412
Elongation at Break	350 %	350 %	ASTM D412
	245 - 455 %	245 - 455 %	±30% change after 168 hours @ 70°C; ASTM D412
Compression Set	20 %	20 %	24 hours @ 70°C; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	250 °C	482 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
	-60.0 °C	-76.0 °F	Non-brittle after 3 minutes
Flash Point	>= 300 °C	>= 572 °F	

Descriptive Properties	Value	Comments
Extraction Test, 21 CFR 177.2600	pass	Distilled Water
	pass	n-Hexane

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