

Precision Polymer Engineering S50K Silicone Rubber

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

Material Notes:

Silicone Rubber, 45-55 °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. Formulated to BS2494 Type 'W' and Water Research Council (WRC) tested in accordance with BS6920 'Items which have passed full tests of effects on water quality' (for use in potable water applications). ASTM & ISO designation = VMQ. WRC Approval No. 9910521. Applications: Cold and hot water, plus low pressure steam, up to +110°C.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-S50K-Silicone-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	°IRHD; ASTM D1415
	45 - 55	45 - 55	°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	375 %	375 %	ASTM D412
	262.5 - 487.5 %	262.5 - 487.5 %	±30% change after 168 hours @ 70°C; ASTM D412
Compression Set	12 %	12 %	70 hours @ 23°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	

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