

Precision Polymer Engineering S50D Silicone Rubber

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

Material Notes:

Black Silicone Rubber, 46-55 °IRHD. Silicone rubber having both methyl and vinyl substituent groups on the polymer chain. Formulated to meet UK Ministry of Defence Aircraft Materials Specification DTD5531A Grade 50. ASTM & ISO designation = VMQ. Applications: Sheets, mouldings and extrusions for mainly mechanical applications in contact with air within the quoted temperature range. They are not intended for liquid sealing or for application where low compression set is of prime importance. Occasional contamination by silicate ester and phosphate ester hydraulic fluids and greases is not unduly detrimental, provided the temperature is not excessive. Contact with fuels, light mineral oils, silicone liquids or greases derived from these should be avoided. Excellent ozone resistance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-S50D-Silicone-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	°IRHD; ASTM D1415
	47 - 57	47 - 57	°IRHD, -3/+7 change after 336 hours @ 200°C; ASTM D1415
Tensile Strength, Yield	5.60 MPa	812 psi	-20% change after 336 hours @ 200°C; ASTM D412
	7.00 MPa	1020 psi	ASTM D412
Elongation at Break	245 %	245 %	-30% change after 336 hours @ 200°C; ASTM D412
	350 %	350 %	ASTM D412
Compression Set	15 %	15 %	24 hours @ 175°C; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	250 °C	482 °F	
Minimum Service Temperature, Air	-65.0 °C	-85.0 °F	
	-65.0 °C	-85.0 °F	Non-brittle after 3 minutes
Flash Point	>= 300 °C	>= 572 °F	

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