

Precision Polymer Engineering S50N 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. ASTM & ISO designation = VMQ. To meet UK Ministry of Defence Aircraft Materials Specification DTD5582A Grade 50. Applications: Particularly suitable in fluid sealing applications where low compression set is of prime importance in O-rings and gaskets. Can be used in contact with heavy mineral and certain diester-based oils within the quoted temperature range. Unsuitable for use in contact with petroleum based fuels, light mineral oils or greases derived from them. Excellent ozone resistance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-S50N-Silicone-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	°IRHD; ASTM D1415
	47 - 55	47 - 55	°IRHD, -3/+5 change after 336 hours @ 200°C; ASTM D1415
Tensile Strength, Yield	3.84 MPa	557 psi	-20% change after 336 hours @ 200°C; ASTM D412
	4.80 MPa	696 psi	ASTM D412
Elongation at Break	140 %	140 %	-30% change after 336 hours @ 200°C; ASTM D412
	200 %	200 %	ASTM D412
Compression Set	15 %	15 %	24 hours @ 150°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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