

Precision Polymer Engineering S65E Silicone Rubber

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

Material Notes:

Red iron oxide filled, Phenyl Silicone Rubber, 65-75 °IRHD. Silicone rubber having methyl, vinyl and phenyl substituent groups on the polymer chain. Meets UK Ministry of Defence aerospace specification DTD818 Class M4 (now obsolescent and inactive for new design).
 ASTM & ISO designation = PVMQ. Applications: Excellent heat resistance plus ultra-low temperature flexibility. Used primarily for dry heat static seals. Low physical strength and poor abrasion resistance prevents dynamic sealing. Although silicone will swell in petroleum lubricants, this is not necessarily detrimental in static sealing applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-S65E-Silicone-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	°IRHD; ASTM D1415
	78	78	°IRHD, +8 change after 70 hours @ 200°C; ASTM D1415
Tensile Strength, Yield	7.238 MPa	1050 psi	-23% change after 70 hours @ 200°C; ASTM D412
	9.40 MPa	1360 psi	ASTM D412
Elongation at Break	300 %	300 %	-40% change after 70 hours @ 200°C; ASTM D412
	500 %	500 %	ASTM D412
Compression Set	30 %	30 %	70 hours @ 100°C; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	250 °C	482 °F	
Minimum Service Temperature, Air	-120 °C	-184 °F	
	-120 °C	-184 °F	Non-brittle after 3 minutes
Flash Point	>= 300 °C	>= 572 °F	

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