

Precision Polymer Engineering S80A Silicone Rubber

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

Material Notes:

Blue Silicone Rubber, 76-85 °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. ASTM & ISO designation = VMQ. Applications: Compound specially formulated for use in the manufacture of seals intended for use in steam sterilisation autoclaves at temperatures of up to +130°C. Excellent heat resistance and low temperature flexibility. Used primarily for high temperature static sealing, the 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-S80A-Silicone-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	°IRHD; ASTM D1415
Tensile Strength, Yield	7.50 MPa	1090 psi	ASTM D412
Elongation at Break	250 %	250 %	ASTM D412
Compression Set	20 %	20 %	24 hours @ 150°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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