

## Precision Polymer Engineering S40R Silicone Rubber

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

### Material Notes:

Red Silicone Rubber, 35-45 °IRHD. Silicone rubber having both methyl and vinyl substituent groups on the polymer chain. ASTM & ISO designation = VMQ. Applications: Excellent heat resistance and low temperature flexibility combined with low compression set performance. 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-S40R-Silicone-Rubber.php](http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-S40R-Silicone-Rubber.php)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40	40	°IRHD; ASTM D1415
Tensile Strength, Yield	7.00 MPa	1020 psi	ASTM D412
Elongation at Break	600 %	600 %	ASTM D412
Compression Set	35 %	35 %	24 hours @ 175°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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