

## Precision Polymer Engineering S50R Silicone Rubber

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

### Material Notes:

Red Silicone Rubber, 45-55 °IRHD. Silicone rubber having both methyl and vinyl substituent groups on the polymer chain. Applications: Excellent heat resistance and 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-S50R-Silicone-Rubber.php](http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-S50R-Silicone-Rubber.php)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	°IRHD; ASTM D1415
	56	56	°IRHD, +6 change after 672 hours @ 200°C; ASTM D1415
Tensile Strength, Yield	6.96 MPa	1010 psi	-13% change after 672 hours @ 200°C; ASTM D412
	8.00 MPa	1160 psi	ASTM D412
Elongation at Break	270 %	270 %	-25% change after 672 hours @ 200°C; ASTM D412
	360 %	360 %	ASTM D412
Compression Set	18 %	18 %	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	

## Contact Songhan Plastic Technology Co.,Ltd.

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