

## Precision Polymer Engineering S60R Silicone Rubber

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

### Material Notes:

Red Silicone 55-65 °IRHD. Diesel cylinder liner ring grade. 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 diesel cylinder liner O-Rings (coolant 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-S60R-Silicone-Rubber.php](http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-S60R-Silicone-Rubber.php)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	°IRHD; ASTM D1415
	66	66	°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	307.5 %	307.5 %	-25% change after 672 hours @ 200°C; ASTM D412
	410 %	410 %	ASTM D412
Compression Set	18 %	18 %	70 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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