

# Precision Polymer S60R

Silicone

Precision Polymer Engineering Ltd.

Message:

Red Silicone 55-65. Diesel cylinder liner ring grade. Silicone rubber having both methyl and vinyl substituent groups on the polymer chain. ASTM & ISO designation = VMQ.  
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.

General Information			
Features	Low compressive deformability		
	Flexibility at low temperatures		
	Heat resistance, high		
Uses	Seals		
	Application in Automobile Field		
Appearance	Red		
Hardness	Nominal Value		Test Method
IRHD Hardness	60		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	8.00	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	410	%	ASTM D412, ISO 37
Compression Set			
150°C, 70 hr	18	%	ASTM D395B
150°C, 70 hr <sup>1</sup>	18	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (200°C, 672 hr)	-13	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air (200°C, 672 hr)	-25	%	ASTM D412, ISO 37
Change in IRHD Hardness in Air (200°C, 672 hr)	6.0		ASTM D573, ISO 188
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	250	°C	
Low Temperature Resistance - Non-brittle after 3 mins	-60	°C	
Additional Information	Nominal Value	Unit	
Minimum Operating Temperature: -60°C (-76°F)			
NOTE			

1. Type B

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