

## Freudenberg Simrit S60 Silicone Elastomer (VMQ)

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

### Material Notes:

General Purpose; AMS 3301; A-A-59588 (ZZ-R-765) Class 2A, 2B Grade 40; Good heat resistance. Poor resistance to abrasion, tear and cut growth; low tensile strength; inferior resistance to oil, gasoline and solvents; poor resistance to alkalis and acids.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Freudenberg-Simrit-S60-Silicone-Elastomer-VMQ.php](http://www.lookpolymers.com/polymer_Freudenberg-Simrit-S60-Silicone-Elastomer-VMQ.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	Original Properties; ASTM D297

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60	60	Original Properties; ASTM D2240
	53	53	ASTM #1 Oil Immersion for 70 hours; ASTM D2240
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	66	66	Air Aging, 70 hours; ASTM D2240
	@Temperature 225 Â°C	@Temperature 437 Â°F	
Tensile Strength, Ultimate	6.55 MPa	950 psi	Original Properties; ASTM D412 Die C
	5.830 MPa	845.5 psi	Air Aging, 70 hours; ASTM D412 Die C
	@Temperature 225 Â°C	@Temperature 437 Â°F	
	6.03 MPa	874 psi	ASTM #1 Oil Immersion for 70 hours; ASTM D412 Die C
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Elongation at Break	350 %	350 %	Original Properties; ASTM D412 Die C
	248.5 %	248.5 %	Air Aging, 70 hours; ASTM D412 Die C
	@Temperature 225 Â°C	@Temperature 437 Â°F	
	322 %	322 %	ASTM #1 Oil Immersion for 70 hours; ASTM D412 Die C
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tear Strength	17.9 kN/m	102 pli	ASTM D624 Die B
Compression Set	19 %	19 %	25 max; ASTM D395
	@Temperature 150 Â°C, Time 252000 sec	@Temperature 302 Â°F, Time 70.0 hour	
	19 %	19 %	40 max; ASTM D395
	@Temperature 150 Â°C,	@Temperature 302 Â°F,	

Mechanical Properties	Time 252000 sec Metric	Time 70.0 hour English	Comments
<b>Descriptive Properties</b>	<b>Value</b>	<b>Comments</b>	
Bend (flat)	Pass	Air Aging for 70 hours at 225Â°C	
Color	Red		
Decomposition per AMS 3302G	None		
Low Temperature Brittleness	Pass, No cracks	ASTM D2137	
Surface Tackiness per AMS 3302G	None		
Volume Change (%), ASTM D471	2	Water Immersion for 70 hours at 100Â°C	
	6	ASTM #1 Oil Immersion for 70 hours at 150Â°C	

## Contact Songhan Plastic Technology Co.,Ltd.

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