

## Freudenberg Simrit S70 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-S70-Silicone-Elastomer-VMQ.php](http://www.lookpolymers.com/polymer_Freudenberg-Simrit-S70-Silicone-Elastomer-VMQ.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	Original Properties; ASTM D297

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	72	72	Original Properties; ASTM D2240
	69	69	ASTM #1 Oil Immersion for 70 hours; ASTM D2240
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Strength, Ultimate	77	77	Air Aging, 70 hours; ASTM D2240
	@Temperature 225 Â°C	@Temperature 437 Â°F	
	7.24 MPa	1050 psi	Original Properties; ASTM D412 Die C
Elongation at Break	6.08 MPa	882 psi	Air Aging, 70 hours; ASTM D412 Die C
	@Temperature 225 Â°C	@Temperature 437 Â°F	
	7.095 MPa	1029 psi	ASTM #1 Oil Immersion for 70 hours; ASTM D412 Die C
Tear Strength	@Temperature 150 Â°C	@Temperature 302 Â°F	
	260 %	260 %	Original Properties; ASTM D412 Die C
	208 %	208 %	Air Aging, 70 hours; ASTM D412 Die C
Compression Set	@Temperature 225 Â°C	@Temperature 437 Â°F	
	234 %	234 %	ASTM #1 Oil Immersion for 70 hours; ASTM D412 Die C
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tear Strength	18.6 kN/m	106 pli	ASTM D624 Die B
	18 %	18 %	ASTM D395
Compression Set	@Temperature 150 Â°C, Time 252000 sec	@Temperature 302 Â°F, Time 70.0 hour	

Descriptive Properties	Value	Comments
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<b>Bend (flat) Descriptive Properties</b>	<b>Pass, no cracks Value</b>	<b>AMS-3304 Comments</b>
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	4	ASTM #1 Oil Immersion for 70 hours at 302°F

## Contact Songhan Plastic Technology Co.,Ltd.

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