

Freudenberg Simrit S50 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-S50-Silicone-Elastomer-VMQ.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	Original Properties; ASTM D297

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	Original Properties; ASTM D2240
	42	42	ASTM #1 Oil Immersion for 70 hours; ASTM D2240
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	56	56	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	ASTM #1 Oil Immersion for 70 hours; ASTM D412 Die C
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	6.16 MPa	893 psi	Air Aging, 70 hours; ASTM D412 Die C
	@Temperature 225 Â°C	@Temperature 437 Â°F	
Elongation at Break	425 %	425 %	Original Properties; ASTM D412 Die C
	306 %	306 %	Air Aging, 70 hours; ASTM D412 Die C
	@Temperature 225 Â°C	@Temperature 437 Â°F	
	391 %	391 %	ASTM #1 Oil Immersion for 70 hours; ASTM D412 Die C
	@Temperature 150 Â°C	@Temperature 302 Â°F	
100% Modulus	0.00155 GPa	0.225 ksi	Original Properties; ASTM D412 Die C
Tear Strength	17.7 kN/m	101 pli	ASTM D624 Die B

Descriptive Properties	Value	Comments
Bend (flat)	Pass	Air Aging for 70 hours at 225Â°C

Color Descriptive Properties	Red Value	Comments
Decomposition per AMS 3302G	None	
Low Temperature Brittleness	Pass, No cracks	ASTM D2137
Surface Tackiness per AMS 3302G	None	
Volume Change (%), ASTM D471	7	ASTM #1 Oil Immersion for 70 hours at 150Â°C

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China