

Freudenberg Simrit S80 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-S80-Silicone-Elastomer-VMQ.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	Original Properties; ASTM D297

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	Original Properties; ASTM D2240
	78	78	ASTM #1 Oil Immersion for 70 hours; ASTM D2240
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Strength, Ultimate	83	83	Air Aging, 70 hours; ASTM D2240
	@Temperature 225 Â°C	@Temperature 437 Â°F	
	0.0434 MPa	6.30 psi	Original Properties; ASTM D412 Die C
Elongation at Break	0.0391 MPa	5.67 psi	Air Aging, 70 hours; ASTM D412 Die C
	@Temperature 225 Â°C	@Temperature 437 Â°F	
	0.04474 MPa	6.489 psi	ASTM #1 Oil Immersion for 70 hours; ASTM D412 Die C
Compression Set	@Temperature 150 Â°C	@Temperature 302 Â°F	
	171 %	171 %	Original Properties; ASTM D412 Die C
	131.67 %	131.67 %	Air Aging, 70 hours; ASTM D412 Die C
Compression Set	@Temperature 225 Â°C	@Temperature 437 Â°F	
	162.45 %	162.45 %	ASTM #1 Oil Immersion for 70 hours; ASTM D412 Die C
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Compression Set	19 %	19 %	45 max; ASTM D395
	@Temperature 150 Â°C, Time 252000 sec	@Temperature 302 Â°F, Time 70.0 hour	
	19 %	19 %	30 max; ASTM D395
Compression Set	@Temperature 150 Â°C, Time 252000 sec	@Temperature 302 Â°F, Time 70.0 hour	

Descriptive Properties	Value	Comments
Color	Red	
Decomposition per AMS 3305	ASTM #1 Oil Immersion for 70 hours at 302°F: none	
Low Temperature Brittleness	Pass, No cracks	ASTM D2137
Surface Tackiness per AMS 3305	ASTM #1 Oil Immersion for 70 hours at 302°F: none	
Volume Change (%), ASTM D471	1.2	Water Immersion for 70 hours at 212°F
	1.7	ASTM #1 Oil Immersion for 70 hours at 302°F

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