

## Freudenberg Simrit S315 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-S315-Silicone-Elastomer-VMQ.php](http://www.lookpolymers.com/polymer_Freudenberg-Simrit-S315-Silicone-Elastomer-VMQ.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	Original Properties; ASTM D297

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	Original Properties; ASTM D2240
	70	70	ASTM #1 Oil Immersion for 70 hours; ASTM D2240
	@Temperature 175 Å°C	@Temperature 347 Å°F	
	72	72	Polymer Reversion for 6 hours; ASTM D2240
	@Temperature 250 Å°C	@Temperature 482 Å°F	
Tensile Strength, Ultimate	79	79	Air Aging, 70 hours; ASTM D2240
	@Temperature 250 Å°C	@Temperature 482 Å°F	
	8.219 MPa	1192 psi	Original Properties; ASTM D1414
	6.904 MPa	1001 psi	Air Aging, 70 hours; ASTM D1414
	@Temperature 250 Å°C	@Temperature 482 Å°F	
	7.068 MPa	1025 psi	ASTM #1 Oil Immersion for 70 hours; ASTM D1414
	@Temperature 175 Å°C	@Temperature 347 Å°F	
Elongation at Break	204 %	204 %	Original Properties; ASTM D1414
	146.88 %	146.88 %	Air Aging, 70 hours; ASTM D1414
	@Temperature 250 Å°C	@Temperature 482 Å°F	
	181.56 %	181.56 %	ASTM #1 Oil Immersion for 70 hours; ASTM D1414
	@Temperature 175 Å°C	@Temperature 347 Å°F	
Compression Set	16.2 %	16.2 %	60 max, over 0.11 inch cross section; ASTM D395
	@Temperature 225 Å°C, Time 79200 sec	@Temperature 437 Å°F, Time 22.0 hour	
	17.3 %	17.3 %	

Mechanical Properties	Metric	English	Comments
	@ Temperature 225 Â°C, Time 79200 sec	@ Temperature 437 Â°F, Time 22.0 hour	70 max. under .11 inch cross section; ASTM D1395

Thermal Properties	Metric	English	Comments
Minimum Service Temperature, Air	-45.6 Â°C	-50.0 Â°F	Retraction Temperature, TR10; ASTM D1329

Descriptive Properties	Value	Comments
Color	Red	
Volume Change (%), ASTM D471	5.4	ASTM #1 Oil Immersion for 70 hours at 302Â°F

## Contact Songhan Plastic Technology Co.,Ltd.

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