Fujipoly Industries SarconÂ® 85Q Thin-Film QR

Category : Polymer , Thermoset , Silicone

Material Notes:

Sarcon QR is Fujipolys originally developed High Heat Conductive/Low Hardness Silicone Rubber. Fine, high heat conductive ceramic particles are mixed with insulative silicone rubber.Information provided by Fujipoly Industries

Order this product through the following link:
http://www.lookpolymers.com/polymer_Fujipoly-Industries-Sarcon-85Q-Thin-Film-QR.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	54	54	60Â°C for 500 hrs with 95% RH; ASTM D2240
	55	55	ASTM D2240
	66	66	150Â°C for 1,000 hrs; ASTM D2240
	78	78	200Â°C for 1,000 hrs; ASTM D2240
Tensile Strength, Yield	2.352 MPa	341.1 psi	
	2.941 MPa	426.6 psi	60Â°C for 500 hrs with 95% RH
	4.705 MPa	682.4 psi	150Â°C for 1,000 hrs
	5.647 MPa	819.0 psi	200Â°C for 1,000 hrs
Elongation at Yield	77 %	77 %	200Â°C for 1,000 hrs
	113 %	113 %	
	173 %	173 %	60Â°C for 500 hrs with 95% RH
	250 %	250 %	
Tear Strength	1.10 kN/m	6.28 pli	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	182 Â°C	360 Â°F	
Minimum Service Temperature, Air	-60.0 Â°C	-76.0 Â°F	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.50e+14 ohm-cm	3.50e+14 ohm-cm	60Â°C for 500 hrs with 95% RH
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	

Electrical Properties	Metric	English	Comments
	8.00e+15 ohm-cm	8.00e+15 ohm-cm	200Â°C for 1,000 hrs
Dielectric Constant	4.82 @Frequency 1e+6 Hz	4.82 @Frequency 1e+6 Hz	After 1000 hrs at 150Â°C
	4.83 @Frequency 1000 Hz	4.83 @Frequency 1000 Hz	After 1000 hrs at 150Â°C
	4.85 @Frequency 1e+6 Hz	4.85 @Frequency 1e+6 Hz	After 500 hrs at 60Â°C with 95% RH
	4.86 @Frequency 50 Hz	4.86 @Frequency 50 Hz	After 1000 hrs at 150Â°C
	4.88 @Frequency 1000 Hz	4.88 @Frequency 1000 Hz	After 500 hrs at 60Â°C with 95% RH
	4.88 @Frequency 1e+6 Hz	4.88 @Frequency 1e+6 Hz	
	4.89 @Frequency 1e+6 Hz	4.89 @Frequency 1e+6 Hz	After 1000 hrs at 200Â°C
	4.9 @Frequency 1000 Hz	4.9 @Frequency 1000 Hz	
	4.92 @Frequency 1000 Hz	4.92 @Frequency 1000 Hz	After 1000 hrs at 200Â°C
	4.94 @Frequency 50 Hz	4.94 @Frequency 50 Hz	
	4.94 @Frequency 50 Hz	4.94 @Frequency 50 Hz	After 1000 hrs at 200Â°C
	4.94 @Frequency 50 Hz	4.94 @Frequency 50 Hz	After 500 hrs at 60Â°C with 95% RH
Dielectric Strength	11.0 kV/mm	279 kV/in	AC 60 Hz
	16.0 kV/mm	406 kV/in	150Â°C for 1,000 hrs
	17.0 kV/mm	432 kV/in	60Â°C for 500 hrs with 95% RH
	18.0 kV/mm	457 kV/in	200Â°C for 1,000 hrs

Electrical Properties	Metric	English	Comments
Dielectric Breakdown	11000 V	11000 V	Withstand Voltage [V/min]; AC 60 Hz
Dissipation Factor	0.0016 @Frequency 1e+6 Hz	0.0016 @Frequency 1e+6 Hz	
	0.0018 @Frequency 1e+6 Hz	0.0018 @Frequency 1e+6 Hz	After 500 hrs at 60Â°C with 95% RH
	0.0018 @Frequency 1e+6 Hz	0.0018 @Frequency 1e+6 Hz	After 1000 hrs at 150Â°C
	0.0024 @Frequency 50 Hz	0.0024 @Frequency 50 Hz	After 1000 hrs at 200Â°C
	0.0024 @Frequency 1000 Hz	0.0024 @Frequency 1000 Hz	After 1000 hrs at 150Â°C
	0.0025 @Frequency 1e+6 Hz	0.0025 @Frequency 1e+6 Hz	After 1000 hrs at 200Â°C
	0.0027 @Frequency 1000 Hz	0.0027 @Frequency 1000 Hz	After 1000 hrs at 200Â°C
	0.0029 @Frequency 50 Hz	0.0029 @Frequency 50 Hz	After 1000 hrs at 150Â°C
	0.0032 @Frequency 1000 Hz	0.0032 @Frequency 1000 Hz	
	0.0053 @Frequency 1000 Hz	0.0053 @Frequency 1000 Hz	After 500 hrs at 60Â°C with 95% RH
	0.0069 @Frequency 50 Hz	0.0069 @Frequency 50 Hz	
	0.0103 @Frequency 50 Hz	0.0103 @Frequency 50 Hz	After 500 hrs at 60Â°C with 95% RH

Descriptive Properties	Value	Comments
Color	Grey	
Thermal Impedance	1.25Â°C/W	FTM P-3010; ASTM D5470

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