Fujipoly Industries SarconÂ® 45Q 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-45Q-Thin-Film-QR.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	ASTM D2240
	60	60	60Â°C for 500 hrs with 95% RH; ASTM D2240
	69	69	150Â°C for 1,000 hrs; ASTM D2240
	82	82	200Â°C for 1,000 hrs; ASTM D2240
Tensile Strength, Yield	2.22 MPa	322 psi	
	2.88 MPa	418 psi	60Â°C for 500 hrs with 95% RH
	4.44 MPa	644 psi	150Â°C for 1,000 hrs
	5.55 MPa	805 psi	200Â°C for 1,000 hrs
Elongation at Yield	77 %	77 %	200Â°C for 1,000 hrs
	117 %	117 %	
	183 %	183 %	60Â°C for 500 hrs with 95% RH
	250 %	250 %	
Tear Strength	0.600 kN/m	3.42 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	1.90e+14 ohm-cm	1.90e+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
	6.50e+15 ohm-cm	6.50e+15 ohm-cm	200Â°C for 1,000 hrs
Dielectric Constant	4.15 @Frequency 1e+6 Hz	4.15 @Frequency 1e+6 Hz	After 1000 hrs at 150Â°C
	4.16 @Frequency 1000 Hz	4.16 @Frequency 1000 Hz	After 1000 hrs at 150Â°C
	4.18 @Frequency 50 Hz	4.18 @Frequency 50 Hz	After 1000 hrs at 150Â°C
	4.2 @Frequency 1e+6 Hz	4.2 @Frequency 1e+6 Hz	After 1000 hrs at 200Â°C
	4.22 @Frequency 1000 Hz	4.22 @Frequency 1000 Hz	After 1000 hrs at 200Â°C
	4.23 @Frequency 1e+6 Hz	4.23 @Frequency 1e+6 Hz	After 500 hrs at 60Â°C with 95% RH
	4.23 @Frequency 1e+6 Hz	4.23 @Frequency 1e+6 Hz	
	4.24 @Frequency 50 Hz	4.24 @Frequency 50 Hz	After 1000 hrs at 200Â°C
	4.24 @Frequency 1000 Hz	4.24 @Frequency 1000 Hz	
	4.27 @Frequency 1000 Hz	4.27 @Frequency 1000 Hz	After 500 hrs at 60Â°C with 95% RH
	4.3 @Frequency 50 Hz	4.3 @Frequency 50 Hz	
	4.34 @Frequency 50 Hz	4.34 @Frequency 50 Hz	After 500 hrs at 60Â°C with 95% RH
Dielectric Strength	8.00 kV/mm	203 kV/in	AC 60 Hz
	12.0 kV/mm	305 kV/in	150Â°C for 1,000 hrs
	12.0 kV/mm	305 kV/in	60Â°C for 500 hrs with 95% RH
	13.0 kV/mm	330 kV/in	200Â°C for 1,000 hrs

Electrical Properties	Metric	English	Comments
Dielectric Breakdown Withstand Voltage [V/min]; AC 60 Hz	8000 V	8000 V	
Dissipation Factor	0.0017 @Frequency 1e+6 Hz	0.0017 @Frequency 1e+6 Hz	After 1000 hrs at 150Â°C
	0.0020 @Frequency 1e+6 Hz	0.0020 @Frequency 1e+6 Hz	
	0.0022 @Frequency 1e+6 Hz	0.0022 @Frequency 1e+6 Hz	After 1000 hrs at 200Â°C
	0.0023 @Frequency 1000 Hz	0.0023 @Frequency 1000 Hz	After 1000 hrs at 150Â°C
	0.0026 @Frequency 1e+6 Hz	0.0026 @Frequency 1e+6 Hz	After 500 hrs at 60Â°C with 95% RH
	0.0028 @Frequency 50 Hz	0.0028 @Frequency 50 Hz	After 1000 hrs at 200Â°C
	0.0028 @Frequency 1000 Hz	0.0028 @Frequency 1000 Hz	After 1000 hrs at 200Â°C
	0.0031 @Frequency 50 Hz	0.0031 @Frequency 50 Hz	After 1000 hrs at 150Â°C
	0.0035 @Frequency 1000 Hz	0.0035 @Frequency 1000 Hz	
	0.0058 @Frequency 50 Hz	0.0058 @Frequency 50 Hz	
	0.0069 @Frequency 1000 Hz	0.0069 @Frequency 1000 Hz	After 500 hrs at 60Â°C with 95% RH
	0.0136 @Frequency 50 Hz	0.0136 @Frequency 50 Hz	After 500 hrs at 60Â°C with 95% RH

Descriptive Properties	Value	Comments
Color	Grey	
Thermal Impedance	0.77Â°C/W	FTM P-3010; ASTM D5470

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