Fujipoly Industries SarconÂ® 20GSR Thin-Film GSR

Category : Polymer , Thermoset , Silicone

Material Notes:

Sarcon GSR is Fujipolys originally developed High Heat Conductive Silicone Rubber. Fine, high heat conductive ceramic particles are mixed with insulative silicone rubber.Sarcon GSR is a composite of Heat Conductive Silicone Rubber and fiberglass.Information provided by Fujipoly Industries

Order this product through the following link:
http://www.lookpolymers.com/polymer_Fujipoly-Industries-Sarcon-20GSR-Thin-Film-GSR.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	ASTM D2240
	85	85	60Â°C for 500 hrs with 95% RH; ASTM D2240
	88	88	150Â°C for 1,000 hrs; ASTM D2240
Tensile Strength, Yield	30.0 MPa	4350 psi	150Â°C for 1,000 hrs; ASTM D1458
	70.0 MPa	10200 psi	
	80.0 MPa	11600 psi	60Â°C for 500 hrs with 95% RH
Elongation at Yield	<= 3.0 %	<= 3.0 %	
	<= 3.0 %	<= 3.0 %	150Â°C for 1,000 hrs; ASTM D1458
	<= 3.0 %	<= 3.0 %	60Â°C for 500 hrs with 95% RH; ASTM D1458

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	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
	2.50e+15 ohm-cm	2.50e+15 ohm-cm	150Â°C for 1,000 hrs
	8.40e+16 ohm-cm	8.40e+16 ohm-cm	60Â°C for 500 hrs with 95% RH
Dielectric Constant	1.84 @Frequency 1000 Hz	1.84 @Frequency 1000 Hz	After 500 hrs at 60Â°C with 95% RH

Electrical Properties	Metric	English	Comments
	1.85 @Frequency 1e+6 Hz	1.85 @Frequency 1e+6 Hz	After 500 hrs at 60Â°C with 95% RH
	1.92 @Frequency 50 Hz	1.92 @Frequency 50 Hz	After 1000 hrs at 150Â°C
	1.92 @Frequency 1000 Hz	1.92 @Frequency 1000 Hz	After 1000 hrs at 150Â°C
	1.93 @Frequency 1e+6 Hz	1.93 @Frequency 1e+6 Hz	After 1000 hrs at 150Â°C
	2.09 @Frequency 50 Hz	2.09 @Frequency 50 Hz	After 500 hrs at 60Â°C with 95% RH
	2.6 @Frequency 1000 Hz	2.6 @Frequency 1000 Hz	
	2.6 @Frequency 50 Hz	2.6 @Frequency 50 Hz	
	2.6 @Frequency 1e+6 Hz	2.6 @Frequency 1e+6 Hz	
Dielectric Strength	5.00 kV/mm	127 kV/in	AC 60 Hz
	6.00 kV/mm	152 kV/in	AC 60 Hz
	6.00 kV/mm	152 kV/in	AC 60 Hz
Dielectric Breakdown	3000 V	3000 V	Withstand Voltage [V/min]; AC 60 Hz
Dissipation Factor	0.00010 @Frequency 1000 Hz	0.00010 @Frequency 1000 Hz	After 500 hrs at 60Â°C with 95% RH
	0.00040 @Frequency 1e+6 Hz	0.00040 @Frequency 1e+6 Hz	After 500 hrs at 60Â°C with 95% RH
	0.00040 @Frequency 50 Hz	0.00040 @Frequency 50 Hz	After 500 hrs at 60Â°C with 95% RH
	0.00040 @Frequency 1e+6 Hz	0.00040 @Frequency 1e+6 Hz	
	0.00050 @Frequency 1000 Hz	0.00050 @Frequency 1000 Hz	After 1000 hrs at 150Â°C
	0.00060	0.00060	

Electrical Properties	Metric	English	Comments
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	After 1000 hrs at 150Â°C
	0.00070 @Frequency 1000 Hz	0.00070 @Frequency 1000 Hz	
	0.0015 @Frequency 50 Hz	0.0015 @Frequency 50 Hz	After 1000 hrs at 150Â°C
	0.0026 @Frequency 50 Hz	0.0026 @Frequency 50 Hz	

Descriptive Properties	Value	Comments
Color	White	
Thermal Impedance	0.30Â°C/W	FTM P-3010; ASTM D5470
Thermal Impedance AD Type	0.64Â°C/W	FTM P-3010; ASTM D5470

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