Fujipoly Industries SarconÂ® 45GSR 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-45GSR-Thin-Film-GSR.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	ASTM D2240
	90	90	150Â°C for 1,000 hrs; ASTM D2240
	91	91	60Â°C for 500 hrs with 95% RH; ASTM D2240
Tensile Strength, Yield	31.11 MPa	4512 psi	150Â°C for 1,000 hrs; ASTM D1458
	40.0 MPa	5800 psi	60Â°C for 500 hrs with 95% RH
	40.0 MPa	5800 psi	
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	9.00e+14 ohm-cm	9.00e+14 ohm-cm	60Â°C for 500 hrs with 95% RH
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
	1.50e+15 ohm-cm	1.50e+15 ohm-cm	150Â°C for 1,000 hrs
Dielectric Constant	3.09 @Frequency 50 Hz	3.09 @Frequency 50 Hz	After 1000 hrs at 150Â°C

Electrical Properties	Metric	English	Comments
	3.09 @Frequency 1000 Hz	3.09 @Frequency 1000 Hz	After 1000 hrs at 150Â°C
	3.11 @Frequency 1e+6 Hz	3.11 @Frequency 1e+6 Hz	After 1000 hrs at 150Â°C
	3.12 @Frequency 1e+6 Hz	3.12 @Frequency 1e+6 Hz	After 500 hrs at 60Â°C with 95% RH
	3.13 @Frequency 1000 Hz	3.13 @Frequency 1000 Hz	After 500 hrs at 60Â°C with 95% RH
	3.15 @Frequency 50 Hz	3.15 @Frequency 50 Hz	After 500 hrs at 60Â°C with 95% RH
	3.2 @Frequency 1000 Hz	3.2 @Frequency 1000 Hz	
	3.2 @Frequency 1e+6 Hz	3.2 @Frequency 1e+6 Hz	
	3.2 @Frequency 50 Hz	3.2 @Frequency 50 Hz	
Dielectric Strength	15.0 kV/mm	381 kV/in	AC 60 Hz
	17.0 kV/mm	432 kV/in	AC 60 Hz
	18.0 kV/mm	457 kV/in	AC 60 Hz
Dielectric Breakdown	7000 V	7000 V	Withstand Voltage [V/min]; AC 60 Hz
Dissipation Factor	0.00010 @Frequency 1000 Hz	0.00010 @Frequency 1000 Hz	
	0.00020 @Frequency 1e+6 Hz	0.00020 @Frequency 1e+6 Hz	
	0.00020 @Frequency 1e+6 Hz	0.00020 @Frequency 1e+6 Hz	After 1000 hrs at 150Â°C
	0.00030 @Frequency 1000 Hz	0.00030 @Frequency 1000 Hz	After 1000 hrs at 150Â°C
	0.0011 @Frequency 1e+6 Hz	0.0011 @Frequency 1e+6 Hz	After 500 hrs at 60Â°C with 95% RH
	0.0011	0.0011	

Electrical Properties	Metric	English	Comments
	@Frequency 50 Hz	@Frequency 50 Hz	After 1000 hrs at 150Â°C
	0.0016 @Frequency 50 Hz	0.0016 @Frequency 50 Hz	
	0.0024 @Frequency 1000 Hz	0.0024 @Frequency 1000 Hz	After 500 hrs at 60Â°C with 95% RH
	0.0059 @Frequency 50 Hz	0.0059 @Frequency 50 Hz	After 500 hrs at 60Â°C with 95% RH

Descriptive Properties	Value	Comments
Color	White	
Thermal Impedance	0.39Â°C/W	FTM P-3010; ASTM D5470
Thermal Impedance AD Type	0.71Â°C/W	FTM P-3010; ASTM D5470

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China