

Fujipoly Industries Sarcon[®] 30GSR 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-30GSR-Thin-Film-GSR.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	ASTM D2240
	85	85	60 [°] C for 500 hrs with 95% RH; ASTM D2240
	90	90	150 [°] C for 1,000 hrs; ASTM D2240
Tensile Strength, Yield	23.3 MPa	3380 psi	150 [°] C for 1,000 hrs; ASTM D1458
	50.0 MPa	7250 psi	
	53.3 MPa	7730 psi	60 [°] C for 500 hrs with 95% RH
Elongation at Yield	<= 3.0 %	<= 3.0 %	
	<= 3.0 %	<= 3.0 %	150 [°] C for 1,000 hrs; ASTM D1458
	<= 3.0 %	<= 3.0 %	60 [°] C for 500 hrs with 95% RH; ASTM D1458

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

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
	8.40e+15 ohm-cm	8.40e+15 ohm-cm	60 [°] C for 500 hrs with 95% RH
	1.10e+16 ohm-cm	1.10e+16 ohm-cm	150 [°] C for 1,000 hrs
Dielectric Constant	2.91	2.91	After 1000 hrs at 150 [°] C
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Electrical Properties	2.91 Metric	2.91 English	Comments After 1000 hrs at 150Å°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	2.93	2.93	After 1000 hrs at 150Å°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.0	3.0	After 500 hrs at 60Å°C with 95% RH
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.0	3.0	
	@Frequency 50 Hz	@Frequency 50 Hz	
	3.0	3.0	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.0	3.0	After 500 hrs at 60Å°C with 95% RH
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.0	3.0	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.02	3.02	After 500 hrs at 60Å°C with 95% RH
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Strength	7.00 kV/mm	178 kV/in	AC 60 Hz
	10.0 kV/mm	254 kV/in	AC 60 Hz
	14.0 kV/mm	356 kV/in	AC 60 Hz
Dielectric Breakdown	5000 V	5000 V	Withstand Voltage [V/min]; AC 60 Hz
Dissipation Factor	0.00030	0.00030	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.00050	0.00050	After 1000 hrs at 150Å°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.00050	0.00050	After 1000 hrs at 150Å°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.00050	0.00050	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0011	0.0011	After 1000 hrs at 150Å°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0014	0.0014	

Electrical Properties	Metric	English	Comments
	0.0021 @Frequency 1e+6 Hz	0.0021 @Frequency 1e+6 Hz	After 500 hrs at 60Â°C with 95% RH
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0025 @Frequency 1000 Hz	0.0025 @Frequency 1000 Hz	After 500 hrs at 60Â°C with 95% RH
	0.0062 @Frequency 50 Hz	0.0062 @Frequency 50 Hz	After 500 hrs at 60Â°C with 95% RH

Descriptive Properties	Value	Comments
Color	White	
Thermal Impedance	0.34Â°C/W	FTM P-3010; ASTM D5470
Thermal Impedance AD Type	0.66Â°C/W	FTM P-3010; ASTM D5470

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