Fujipoly Industries SarconÂ® 30GHR Thin-Film GHR

Category : Polymer , Thermoset , Silicone

Material Notes:

Sarcon HR is Fujipolys originally developed High Heat Conductive Silicone Rubber. Fine, high heat conductive ceramic particles are mixed with insulative silicone rubber.Sarcon GHR 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-30GHR-Thin-Film-GHR.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	95	95	ASTM D2240
	95	95	60Â°C for 500 hrs; ASTM D2240
	96	96	150Â°C for 1,000 hrs; ASTM D2240
	96	96	200Â°C for 1,000 hrs; ASTM D2240
Tensile Strength, Yield	24.0 MPa	3480 psi	200Â°C for 1,000 hrs
	26.6 MPa	3860 psi	ASTM D1458
	31.67 MPa	4593 psi	150Â°C for 1,000 hrs; ASTM D1458
Elongation at Yield	<= 2.0 %	<= 2.0 %	ASTM D1458
	<= 2.0 %	<= 2.0 %	150Â°C for 1,000 hrs; ASTM D1458
	<= 2.0 %	<= 2.0 %	200Â°C for 1,000 hrs; 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	3.90e+9 ohm-cm	3.90e+9 ohm-cm	60Â°C for 500 hrs
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
	3.90e+15 ohm-cm	3.90e+15 ohm-cm	150Â°C for 1,000 hrs
	1.00e+16 ohm-cm	1.00e+16 ohm-cm	200Â°C for 1,000 hrs

Electrical Properties	Metric	English	Comments
	3.1 @Frequency 50 Hz	3.1 @Frequency 50 Hz	
	3.1 @Frequency 1e+6 Hz	3.1 @Frequency 1e+6 Hz	After 1000 hrs at 150Â°C
	3.1 @Frequency 1000 Hz	3.1 @Frequency 1000 Hz	After 1000 hrs at 150Â°C
	3.5 @Frequency 1000 Hz	3.5 @Frequency 1000 Hz	After 1000 hrs at 200Â°C
	3.5 @Frequency 1e+6 Hz	3.5 @Frequency 1e+6 Hz	After 1000 hrs at 200Â°C
	3.5 @Frequency 50 Hz	3.5 @Frequency 50 Hz	After 1000 hrs at 200Â°C
	3.9 @Frequency 50 Hz	3.9 @Frequency 50 Hz	
	3.9 @Frequency 1000 Hz	3.9 @Frequency 1000 Hz	
	3.9 @Frequency 1e+6 Hz	3.9 @Frequency 1e+6 Hz	
	4.5 @Frequency 1e+6 Hz	4.5 @Frequency 1e+6 Hz	After 500 hrs at 60Â°C
	4.7 @Frequency 1000 Hz	4.7 @Frequency 1000 Hz	After 500 hrs at 60Â°C
	5.0 @Frequency 50 Hz	5.0 @Frequency 50 Hz	After 500 hrs at 60Â°C
Dielectric Strength	5.70 kV/mm	145 kV/in	200Â°C for 1,000 hrs
	7.00 kV/mm	178 kV/in	60Â°C for 500 hrs
	7.00 kV/mm	178 kV/in	150Â°C for 1,000 hrs
	9.00 kV/mm	229 kV/in	AC 60 Hz
Dielectric Breakdown	8000 V	8000 V	Withstand Voltage [V/min]; AC 60 Hz
Dissipation Factor	0.0010	0.0010	After 1000 hrs at 200Â°C

Electrical Properties	Metric	English	Comments
	@Frequency 1000 Hz 0.0020 @Frequency 50 Hz	@Frequency 1000 Hz 0.0020 @Frequency 50 Hz	After 1000 hrs at 200Â°C
	0.0020 @Frequency 50 Hz	0.0020 @Frequency 50 Hz	After 1000 hrs at 150Â°C
	0.0020 @Frequency 1000 Hz	0.0020 @Frequency 1000 Hz	After 1000 hrs at 150Â°C
	0.0030 @Frequency 1e+6 Hz	0.0030 @Frequency 1e+6 Hz	After 1000 hrs at 200Â°C
	0.0030 @Frequency 1000 Hz	0.0030 @Frequency 1000 Hz	
	0.0040 @Frequency 1e+6 Hz	0.0040 @Frequency 1e+6 Hz	
	0.0040 @Frequency 1e+6 Hz	0.0040 @Frequency 1e+6 Hz	After 1000 hrs at 150Â°C
	0.0060 @Frequency 50 Hz	0.0060 @Frequency 50 Hz	
	0.0080 @Frequency 1e+6 Hz	0.0080 @Frequency 1e+6 Hz	After 500 hrs at 60Â°C
	0.020 @Frequency 1000 Hz	0.020 @Frequency 1000 Hz	After 500 hrs at 60Â°C
	0.069 @Frequency 50 Hz	0.069 @Frequency 50 Hz	After 500 hrs at 60Â°C

Descriptive Properties	Value	Comments
Color	Brown	
Thermal Impedance	0.61Â°C/W	FTM P-3010; ASTM D5470
Thermal Impedance AD Type	0.72Â°C/W	FTM P-3010; ASTM D5470

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