

Fujipoly Industries Sarcon® 15GHR 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-15GHR-Thin-Film-GHR.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	92	92	ASTM D2240
	92	92	150Â°C for 1,000 hrs; ASTM D2240
	92	92	60Â°C for 500 hrs; ASTM D2240
	94	94	200Â°C for 1,000 hrs; ASTM D2240
Tensile Strength, Yield	39.33 MPa	5704 psi	200Â°C for 1,000 hrs
	52.0 MPa	7540 psi	150Â°C for 1,000 hrs; ASTM D1458
	53.3 MPa	7730 psi	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	3.20e+12 ohm-cm	3.20e+12 ohm-cm	60Â°C for 500 hrs
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
	1.80e+16 ohm-cm	1.80e+16 ohm-cm	150Â°C for 1,000 hrs
	1.80e+16 ohm-cm	1.80e+16 ohm-cm	200Â°C for 1,000 hrs

Electrical Properties	^{2.4} Metric	^{2.4} English	Comments
	@Frequency 50 Hz	@Frequency 50 Hz	hrs at 200Â°C
	2.4	2.4	After 1000 hrs at 200Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	2.4	2.4	After 1000 hrs at 200Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	2.5	2.5	After 1000 hrs at 150Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	2.5	2.5	After 1000 hrs at 150Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	2.5	2.5	After 1000 hrs at 150Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	3.0	3.0	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.0	3.0	
	@Frequency 50 Hz	@Frequency 50 Hz	
	3.0	3.0	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.3	3.3	After 500 hrs at 60Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.3	3.3	After 500 hrs at 60Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.5	3.5	After 500 hrs at 60Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Strength	2.50 kV/mm	63.5 kV/in	200Â°C for 1,000 hrs
	2.50 kV/mm	63.5 kV/in	60Â°C for 500 hrs
	3.00 kV/mm	76.2 kV/in	AC 60 Hz
	3.00 kV/mm	76.2 kV/in	150Â°C for 1,000 hrs
Dielectric Breakdown	2000 V	2000 V	Withstand Voltage [V/min]; AC 60 Hz
Dissipation Factor	0.0010	0.0010	After 1000 hrs at 200Â°C

Electrical Properties	@Frequency 1000 Hz Metric 0.0020	@Frequency 1000 Hz English 0.0020	Comments
	@Frequency 50 Hz	@Frequency 50 Hz	After 1000 hrs at 200Â°C
	0.0020	0.0020	After 1000 hrs at 150Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0030	0.0030	After 1000 hrs at 150Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0030	0.0030	After 1000 hrs at 200Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0030	0.0030	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0040	0.0040	After 1000 hrs at 150Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0050	0.0050	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0070	0.0070	After 500 hrs at 60Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.010	0.010	After 500 hrs at 60Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.015	0.015	
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.045	0.045	After 500 hrs at 60Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	

Descriptive Properties	Value	Comments
Color	Brown	
Thermal Impedance	0.55Â°C/W	FTM P-3010; ASTM D5470
Thermal Impedance AD Type	0.63Â°C/W	FTM P-3010; ASTM D5470

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