Fujipoly Industries SarconÂ® 30H Thin-Film HR

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-30H-Thin-Film-HR.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	ASTM D2240
	86	86	60Â°C for 500 hrs; ASTM D2240
	94	94	150Â°C for 1,000 hrs; ASTM D2240
	98	98	200Â°C for 1,000 hrs; ASTM D2240
Tensile Strength, Yield	4.60 MPa	667 psi	150Â°C for 1,000 hrs
	5.666 MPa	821.8 psi	
	6.67 MPa	967 psi	200Â°C for 1,000 hrs
Elongation at Yield	25 %	25 %	150Â°C for 1,000 hrs
	25 %	25 %	200Â°C for 1,000 hrs
	60 %	60 %	
Tear Strength	0.200 kN/m	1.14 pli	

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	2.40e+13 ohm-cm	2.40e+13 ohm-cm	60Â°C for 500 hrs
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	150Â°C for 1,000 hrs

Electrical Properties	Metric	English	Comments
	9.40e+15 ohm-cm	9.40e+15 ohm-cm	200Â°C for 1,000 hrs
Dielectric Constant	4.5 @Frequency 1000 Hz	4.5 @Frequency 1000 Hz	After 1000 hrs at 150Â°C
	4.5 @Frequency 1e+6 Hz	4.5 @Frequency 1e+6 Hz	After 1000 hrs at 150Â°C
	4.6 @Frequency 1e+6 Hz	4.6 @Frequency 1e+6 Hz	After 1000 hrs at 200Â°C
	4.6 @Frequency 1000 Hz	4.6 @Frequency 1000 Hz	After 1000 hrs at 200Â°C
	4.6 @Frequency 50 Hz	4.6 @Frequency 50 Hz	After 1000 hrs at 150Â°C
	4.6 @Frequency 50 Hz	4.6 @Frequency 50 Hz	After 1000 hrs at 200Â°C
	4.8 @Frequency 1e+6 Hz	4.8 @Frequency 1e+6 Hz	
	4.9 @Frequency 50 Hz	4.9 @Frequency 50 Hz	
	4.9 @Frequency 1000 Hz	4.9 @Frequency 1000 Hz	
	5.2 @Frequency 1e+6 Hz	5.2 @Frequency 1e+6 Hz	After 500 hrs at 60Â°C
	5.4 @Frequency 1000 Hz	5.4 @Frequency 1000 Hz	After 500 hrs at 60Â°C
	5.6 @Frequency 50 Hz	5.6 @Frequency 50 Hz	After 500 hrs at 60Â°C
Dielectric Strength	4.00 kV/mm	102 kV/in	60Â°C for 500 hrs
	7.00 kV/mm	178 kV/in	AC 60 Hz; 150Â°C for 1,000 hrs
	7.00 kV/mm	178 kV/in	200Â°C for 1,000 hrs
	9.00 kV/mm	229 kV/in	AC 60 Hz
Dielectric Breakdown	6000 V	6000 V	Withstand Voltage [V/min]; AC 60 HZ

Electrical Properties	Metric	English	Comments
	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 150Â°C
	0.0030 @Frequency 1000 Hz	0.0030 @Frequency 1000 Hz	After 1000 hrs at 200Â°C
	0.0030 @Frequency 1e+6 Hz	0.0030 @Frequency 1e+6 Hz	After 1000 hrs at 200Â°C
	0.0030 @Frequency 1e+6 Hz	0.0030 @Frequency 1e+6 Hz	
	0.0040 @Frequency 1000 Hz	0.0040 @Frequency 1000 Hz	
	0.0040 @Frequency 50 Hz	0.0040 @Frequency 50 Hz	After 1000 hrs at 150Â°C
	0.0050 @Frequency 50 Hz	0.0050 @Frequency 50 Hz	After 1000 hrs at 200Â°C
	0.0080 @Frequency 1e+6 Hz	0.0080 @Frequency 1e+6 Hz	After 500 hrs at 60Â°C
	0.0080 @Frequency 50 Hz	0.0080 @Frequency 50 Hz	
	0.017 @Frequency 1000 Hz	0.017 @Frequency 1000 Hz	After 500 hrs at 60Â°C
	0.029 @Frequency 50 Hz	0.029 @Frequency 50 Hz	After 500 hrs at 60Â°C

Descriptive Properties	Value	Comments
Color	Brown	
Thermal Impedance	0.42Â°C/W	FTM P-3010; ASTM D5470

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