

Fujipoly Industries Sarcon[®] 45H 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-45H-Thin-Film-HR.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	ASTM D2240
	89	89	60 [°] C for 500 hrs; ASTM D2240
	95	95	150 [°] C for 1,000 hrs; ASTM D2240
	99	99	200 [°] C for 1,000 hrs; ASTM D2240
Tensile Strength, Yield	5.111 MPa	741.3 psi	
	6.22 MPa	902 psi	150 [°] C for 1,000 hrs
	6.89 MPa	999 psi	200 [°] C for 1,000 hrs
Elongation at Yield	25 %	25 %	200 [°] C for 1,000 hrs
	30 %	30 %	150 [°] C for 1,000 hrs
	60 %	60 %	
Tear Strength	0.300 kN/m	1.71 pli	

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	2.40e+13 ohm-cm	2.40e+13 ohm-cm	60 [°] C for 500 hrs
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
	4.70e+15 ohm-cm	4.70e+15 ohm-cm	150 [°] C for 1,000 hrs

Electrical Properties	5.60e+15 ohm-cm Metric	5.60e+15 ohm-cm English	200Å°C for 1,000 hrs Comments
Dielectric Constant	4.3	4.3	After 1000 hrs at 200Å°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	4.3	4.3	After 1000 hrs at 200Å°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.3	4.3	After 1000 hrs at 200Å°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	4.5	4.5	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.5	4.5	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
4.6	4.6	After 1000 hrs at 150Å°C	
@Frequency 1000 Hz	@Frequency 1000 Hz		
4.6	4.6		
@Frequency 50 Hz	@Frequency 50 Hz		
4.6	4.6	After 1000 hrs at 150Å°C	
@Frequency 50 Hz	@Frequency 50 Hz		
4.6	4.6	After 1000 hrs at 150Å°C	
@Frequency 1e+6 Hz	@Frequency 1e+6 Hz		
5.1	5.1	After 500 hrs at 60Å°C	
@Frequency 1e+6 Hz	@Frequency 1e+6 Hz		
5.3	5.3	After 500 hrs at 60Å°C	
@Frequency 1000 Hz	@Frequency 1000 Hz		
5.5	5.5	After 500 hrs at 60Å°C	
@Frequency 50 Hz	@Frequency 50 Hz		
Dielectric Strength	5.00 kV/mm	127 kV/in	60Å°C for 500 hrs
	6.00 kV/mm	152 kV/in	200Å°C for 1,000 hrs
	8.10 kV/mm	206 kV/in	AC 60 Hz; 150Å°C for 1,000 hrs
	10.0 kV/mm	254 kV/in	AC 60 Hz
Dielectric Breakdown	7000 V	7000 V	Withstand Voltage [V/min]; AC 60 Hz

Electrical Properties	0.0030 Metric	0.0030 English	Comments hrs at 150Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0030	0.0030	After 1000 hrs at 150Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0030	0.0030	After 1000 hrs at 200Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0030	0.0030	After 1000 hrs at 200Â°C
	@Frequency 1000 Hz	@Frequency 1000 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	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0040	0.0040	After 1000 hrs at 150Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0070	0.0070	After 500 hrs at 60Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0070	0.0070	
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.014	0.014	After 500 hrs at 60Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.024	0.024	After 500 hrs at 60Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	

Descriptive Properties	Value	Comments
Color	Brown	
Thermal Impedance	0.52Â°C/W	FTM P-3010; ASTM D5470

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