

Fujipoly Industries Sarcon[®] 85H 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-85H-Thin-Film-HR.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	ASTM D2240
	86	86	60 [°] C for 500 hrs; ASTM D2240
	94	94	150 [°] C for 1,000 hrs; ASTM D2240
	95	95	200 [°] C for 1,000 hrs; ASTM D2240
Tensile Strength, Yield	4.941 MPa	716.6 psi	
	5.647 MPa	819.0 psi	150 [°] C for 1,000 hrs
	5.882 MPa	853.1 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	0.600 kN/m	3.42 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	2.60e+13 ohm-cm	2.60e+13 ohm-cm	60 [°] C for 500 hrs
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
	7.60e+15 ohm-cm	7.60e+15 ohm-cm	200 [°] C for 1,000 hrs

Electrical Properties	7.70e+15 ohm-cm Metric	7.70e+15 ohm-cm English	150Â°C for 1,000 hrs Comments
Dielectric Constant	5.4	5.4	
	@Frequency 50 Hz	@Frequency 50 Hz	
	5.4	5.4	After 1000 hrs at 200Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	5.4	5.4	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	5.4	5.4	After 1000 hrs at 200Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	5.5	5.5	After 1000 hrs at 150Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
5.5	5.5	After 1000 hrs at 150Â°C	
@Frequency 1e+6 Hz	@Frequency 1e+6 Hz		
5.5	5.5	After 1000 hrs at 150Â°C	
@Frequency 50 Hz	@Frequency 50 Hz		
5.5	5.5	After 1000 hrs at 200Â°C	
@Frequency 50 Hz	@Frequency 50 Hz		
5.7	5.7		
@Frequency 1000 Hz	@Frequency 1000 Hz		
6.0	6.0	After 500 hrs at 60Â°C	
@Frequency 1000 Hz	@Frequency 1000 Hz		
6.0	6.0	After 500 hrs at 60Â°C	
@Frequency 1e+6 Hz	@Frequency 1e+6 Hz		
6.4	6.4	After 500 hrs at 60Â°C	
@Frequency 50 Hz	@Frequency 50 Hz		
Dielectric Strength	6.00 kV/mm	152 kV/in	60Â°C for 500 hrs
	11.5 kV/mm	292 kV/in	AC 60 Hz; 150Â°C for 1,000 hrs
	12.4 kV/mm	315 kV/in	200Â°C for 1,000 hrs
	14.0 kV/mm	356 kV/in	AC 60 Hz
Dielectric Breakdown	10000 V	10000 V	Withstand Voltage [V/min]; AC 60 Hz

Electrical Properties	0.0020 Metric	0.0020 English	Comments hrs at 150Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0020	0.0020	After 1000 hrs at 200Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0020	0.0020	After 1000 hrs at 200Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0020	0.0020	After 1000 hrs at 200Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0020	0.0020	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0020	0.0020	
	@Frequency 1e+6 Hz	@Frequency 1e+6 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 150Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0040	0.0040	
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0070	0.0070	After 500 hrs at 60Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.013	0.013	After 500 hrs at 60Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.023	0.023	After 500 hrs at 60Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	

Descriptive Properties	Value	Comments
Color	Brown	
Thermal Impedance	0.76Â°C/W	FTM P-3010; ASTM D5470

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