Fujipoly Industries SarconÂ® 85U Thin-Film UR

Category : Polymer , Thermoset , Silicone

Material Notes:

Sarcon UR is Fujipolys originally developed High Heat Conductive/Low Hardness Silicone Rubber. Fine, high heat conductive ceramic particles are mixed with insulative silicone rubber.Information provided by Fujipoly Industries

Order this product through the following link:
http://www.lookpolymers.com/polymer_Fujipoly-Industries-Sarcon-85U-Thin-Film-UR.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	79	79	ASTM D2240
	83	83	150Â°C for 1,000 hrs; ASTM D2240
	85	85	60Â°C for 500 hrs with 95% RH; ASTM D2240
	86	86	200Â°C for 1,000 hrs; ASTM D2240
Tensile Strength, Yield	2.588 MPa	375.4 psi	
	3.882 MPa	563.0 psi	60Â°C for 500 hrs with 95% RH
	4.00 MPa	580 psi	150Â°C for 1,000 hrs
	6.00 MPa	870 psi	200Â°C for 1,000 hrs
Elongation at Yield	47 %	47 %	150Â°C for 1,000 hrs
	50 %	50 %	200Â°C for 1,000 hrs
	83 %	83 %	60Â°C for 500 hrs with 95% RH
	110 %	110 %	
Tear Strength	0.700 kN/m	3.99 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	2.00e+13 ohm-cm	2.00e+13 ohm-cm	60Â°C for 500 hrs with 95% RH
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	

Electrical Properties	Metric 15 ohm-cm	English 5 ohm-cm	Comments 1,000 hrs
	1.20e+16 ohm-cm	1.20e+16 ohm-cm	200Â°C for 1,000 hrs
Dielectric Constant	5.13 @Frequency 1000 Hz	5.13 @Frequency 1000 Hz	After 1000 hrs at 200Â°C
	5.14 @Frequency 50 Hz	5.14 @Frequency 50 Hz	After 1000 hrs at 200Â°C
	5.15 @Frequency 50 Hz	5.15 @Frequency 50 Hz	After 1000 hrs at 150Â°C
	5.15 @Frequency 1000 Hz	5.15 @Frequency 1000 Hz	After 1000 hrs at 150Â°C
	5.15 @Frequency 1e+6 Hz	5.15 @Frequency 1e+6 Hz	After 1000 hrs at 200Â°C
	5.16 @Frequency 1e+6 Hz	5.16 @Frequency 1e+6 Hz	After 1000 hrs at 150Â°C
	5.34 @Frequency 1e+6 Hz	5.34 @Frequency 1e+6 Hz	
	5.34 @Frequency 1000 Hz	5.34 @Frequency 1000 Hz	
	5.35 @Frequency 50 Hz	5.35 @Frequency 50 Hz	
	5.51 @Frequency 1e+6 Hz	5.51 @Frequency 1e+6 Hz	After 500 hrs at 60Â°C with 95% RH
	5.72 @Frequency 1000 Hz	5.72 @Frequency 1000 Hz	After 500 hrs at 60Â°C with 95% RH
	6.03 @Frequency 50 Hz	6.03 @Frequency 50 Hz	After 500 hrs at 60Â°C with 95% RH
Dielectric Strength	16.0 kV/mm	406 kV/in	AC 60 Hz
	16.0 kV/mm	406 kV/in	200Â°C for 1,000 hrs
	16.0 kV/mm	406 kV/in	60Â°C for 500 hrs with 95% RH
	17.0 kV/mm	432 kV/in	150Â°C for 1,000 hrs

Electrical Properties	Metric	English	Comments
Dielectric Breakdown Withstand Voltage	11000 V	11000 V	[V/min]; AC 60 Hz
Dissipation Factor	0.00070 @Frequency 50 Hz	0.00070 @Frequency 50 Hz	After 1000 hrs at 150Â°C
	0.00070 @Frequency 1000 Hz	0.00070 @Frequency 1000 Hz	After 1000 hrs at 150Â°C
	0.00070 @Frequency 1e+6 Hz	0.00070 @Frequency 1e+6 Hz	After 1000 hrs at 150Â°C
	0.00070 @Frequency 1000 Hz	0.00070 @Frequency 1000 Hz	After 1000 hrs at 200Â°C
	0.00070 @Frequency 1e+6 Hz	0.00070 @Frequency 1e+6 Hz	After 1000 hrs at 200Â°C
	0.0010 @Frequency 1e+6 Hz	0.0010 @Frequency 1e+6 Hz	
	0.0011 @Frequency 50 Hz	0.0011 @Frequency 50 Hz	After 1000 hrs at 200Â°C
	0.0013 @Frequency 1000 Hz	0.0013 @Frequency 1000 Hz	
	0.0025 @Frequency 50 Hz	0.0025 @Frequency 50 Hz	
	0.0056 @Frequency 1e+6 Hz	0.0056 @Frequency 1e+6 Hz	After 500 hrs at 60Â°C with 95% RH
	0.0194 @Frequency 1000 Hz	0.0194 @Frequency 1000 Hz	After 500 hrs at 60Â°C with 95% RH
	0.0521 @Frequency 50 Hz	0.0521 @Frequency 50 Hz	After 500 hrs at 60Â°C with 95% RH

Descriptive Properties	Value	Comments
Color	Grey	
Thermal Impedance	0.56Â°C/W	FTM P-3010; ASTM D5470

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