

Fujipoly Industries Sarcon® 45U 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-45U-Thin-Film-UR.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	79	79	ASTM D2240
	88	88	60°C for 500 hrs with 95% RH; ASTM D2240
	91	91	150°C for 1,000 hrs; ASTM D2240
	93	93	200°C for 1,000 hrs; ASTM D2240
Tensile Strength, Yield	2.66 MPa	386 psi	
	3.77 MPa	547 psi	60°C for 500 hrs with 95% RH
	4.22 MPa	612 psi	150°C for 1,000 hrs
	6.66 MPa	966 psi	200°C for 1,000 hrs
Elongation at Yield	47 %	47 %	200°C for 1,000 hrs
	50 %	50 %	150°C for 1,000 hrs
	83 %	83 %	60°C for 500 hrs with 95% RH
	110 %	110 %	
Tear Strength	0.400 kN/m	2.28 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	6.10e+13 ohm-cm	6.10e+13 ohm-cm	60°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
	1.00e+16 ohm-cm	1.00e+16 ohm-cm	150Â°C for 1,000 hrs
Dielectric Constant	4.42	4.42	After 1000 hrs at 200Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	4.43	4.43	After 1000 hrs at 200Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	4.44	4.44	After 1000 hrs at 200Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.52	4.52	After 1000 hrs at 150Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	4.53	4.53	After 1000 hrs at 150Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	4.54	4.54	After 1000 hrs at 150Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.63	4.63	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	4.64	4.64	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.64	4.64	
	@Frequency 50 Hz	@Frequency 50 Hz	
	4.65	4.65	After 500 hrs at 60Â°C with 95% RH
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.71	4.71	After 500 hrs at 60Â°C with 95% RH
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	4.79	4.79	After 500 hrs at 60Â°C with 95% RH
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Strength	12.0 kV/mm	305 kV/in	AC 60 Hz
	13.0 kV/mm	330 kV/in	150Â°C for 1,000 hrs
	13.0 kV/mm	330 kV/in	200Â°C for 1,000 hrs
	13.0 kV/mm	330 kV/in	60Â°C for 500 hrs with 95% RH

Electrical Properties	8000 V Metric	8000 V English	Comments
Dissipation Factor	0.00060	0.00060	After 1000 hrs at 200Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.00070	0.00070	After 1000 hrs at 150Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.00070	0.00070	After 1000 hrs at 150Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.00070	0.00070	After 1000 hrs at 150Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.00080	0.00080	After 1000 hrs at 200Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.00090	0.00090	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0013	0.0013	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0013	0.0013	After 1000 hrs at 200Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0024	0.0024	
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0035	0.0035	After 500 hrs at 60Â°C with 95% RH
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0069	0.0069	After 500 hrs at 60Â°C with 95% RH
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0186	0.0186	After 500 hrs at 60Â°C with 95% RH
	@Frequency 50 Hz	@Frequency 50 Hz	

Descriptive Properties	Value	Comments
Color	Grey	
Thermal Impedance	0.35Â°C/W	FTM P-3010; ASTM D5470

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