

Fujipoly Industries Sarcon® 30U 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-30U-Thin-Film-UR.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	79	79	ASTM D2240
	85	85	60Â°C for 500 hrs with 95% RH; ASTM D2240
	89	89	150Â°C for 1,000 hrs; ASTM D2240
	92	92	200Â°C for 1,000 hrs; ASTM D2240
Tensile Strength, Yield	3.00 MPa	435 psi	
	3.67 MPa	532 psi	60Â°C for 500 hrs with 95% RH
	4.33 MPa	628 psi	150Â°C for 1,000 hrs
	6.33 MPa	918 psi	200Â°C for 1,000 hrs
Elongation at Yield	40 %	40 %	150Â°C for 1,000 hrs
	43 %	43 %	200Â°C for 1,000 hrs
	73 %	73 %	60Â°C for 500 hrs with 95% RH
	110 %	110 %	
Tear Strength	0.300 kN/m	1.71 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	5.80e+13 ohm-cm	5.80e+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
	6.20e+15 ohm-cm	6.20e+15 ohm-cm	150Â°C for 1,000 hrs
Dielectric Constant	4.09	4.09	After 1000 hrs at 200Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	4.1	4.1	After 1000 hrs at 200Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	4.11	4.11	After 1000 hrs at 200Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.23	4.23	After 1000 hrs at 150Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	4.24	4.24	After 1000 hrs at 150Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	4.26	4.26	After 1000 hrs at 150Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.31	4.31	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	4.32	4.32	
	@Frequency 50 Hz	@Frequency 50 Hz	
	4.33	4.33	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.34	4.34	After 500 hrs at 60Â°C with 95% RH
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.38	4.38	After 500 hrs at 60Â°C with 95% RH
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	4.45	4.45	After 500 hrs at 60Â°C with 95% RH
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Strength	9.00 kV/mm	229 kV/in	AC 60 Hz
	10.0 kV/mm	254 kV/in	150Â°C for 1,000 hrs
	10.0 kV/mm	254 kV/in	200Â°C for 1,000 hrs
	10.0 kV/mm	254 kV/in	60Â°C for 500 hrs with 95% RH

Dielectric Breakdown Electrical Properties	6000 V Metric	6000 V English	Withstand Voltage [V/min]; AC 60 HZ Comments
Dissipation Factor	0.00070	0.00070	After 1000 hrs at 200Â°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	
	0.00080	0.00080	After 1000 hrs at 150Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.00080	0.00080	After 1000 hrs at 150Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0011	0.0011	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0012	0.0012	After 1000 hrs at 200Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0013	0.0013	After 1000 hrs at 150Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0014	0.0014	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0027	0.0027	
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0029	0.0029	After 500 hrs at 60Â°C with 95% RH
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0062	0.0062	After 500 hrs at 60Â°C with 95% RH
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0159	0.0159	After 500 hrs at 60Â°C with 95% RH
	@Frequency 50 Hz	@Frequency 50 Hz	

Descriptive Properties	Value	Comments
Color	Grey	
Thermal Impedance	0.26Â°C/W	FTM P-3010; ASTM D5470

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