

## Fujipoly Industries Sarcon® 30Q Thin-Film QR

Category : Polymer , Thermoset , Silicone

### Material Notes:

Sarcon QR 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-30Q-Thin-Film-QR.php](http://www.lookpolymers.com/polymer_Fujipoly-Industries-Sarcon-30Q-Thin-Film-QR.php)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	ASTM D2240
	63	63	60°C for 500 hrs with 95% RH; ASTM D2240
	73	73	150°C for 1,000 hrs; ASTM D2240
	80	80	200°C for 1,000 hrs; ASTM D2240
Tensile Strength, Yield	2.66 MPa	386 psi	
	4.33 MPa	628 psi	60°C for 500 hrs with 95% RH
	5.33 MPa	773 psi	150°C for 1,000 hrs
	6.00 MPa	870 psi	200°C for 1,000 hrs
Elongation at Yield	70 %	70 %	200°C for 1,000 hrs
	103 %	103 %	
	147 %	147 %	60°C for 500 hrs with 95% RH
	250 %	250 %	
Tear Strength	0.500 kN/m	2.85 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	2.80e+14 ohm-cm	2.80e+14 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
	7.50e+15 ohm-cm	7.50e+15 ohm-cm	200Â°C for 1,000 hrs
Dielectric Constant	3.87	3.87	After 1000 hrs at 200Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.88	3.88	After 1000 hrs at 200Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.91	3.91	After 1000 hrs at 200Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	3.99	3.99	After 1000 hrs at 150Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.99	3.99	After 1000 hrs at 150Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.02	4.02	After 1000 hrs at 150Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	4.1	4.1	After 500 hrs at 60Â°C with 95% RH
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
4.11	4.11		
@Frequency 1e+6 Hz	@Frequency 1e+6 Hz		
4.12	4.12		
@Frequency 1000 Hz	@Frequency 1000 Hz		
4.13	4.13	After 500 hrs at 60Â°C with 95% RH	
@Frequency 1000 Hz	@Frequency 1000 Hz		
4.15	4.15		
@Frequency 50 Hz	@Frequency 50 Hz		
4.2	4.2	After 500 hrs at 60Â°C with 95% RH	
@Frequency 50 Hz	@Frequency 50 Hz		
Dielectric Strength	7.00 kV/mm	178 kV/in	AC 60 Hz
	10.0 kV/mm	254 kV/in	150Â°C for 1,000 hrs
	11.0 kV/mm	279 kV/in	200Â°C for 1,000 hrs
	11.0 kV/mm	279 kV/in	60Â°C for 500 hrs with 95% RH

Dielectric Breakdown Electrical Properties	7000 V Metric	7000 V English	Withstand Voltage [V/min]; AC 60 Hz Comments
Dissipation Factor	0.0022	0.0022	After 1000 hrs at 150Å°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0022	0.0022	After 1000 hrs at 200Å°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0022	0.0022	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0026	0.0026	After 1000 hrs at 150Å°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0027	0.0027	After 500 hrs at 60Å°C with 95% RH
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0031	0.0031	After 1000 hrs at 200Å°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0035	0.0035	After 1000 hrs at 200Å°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0035	0.0035	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0039	0.0039	After 1000 hrs at 150Å°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0064	0.0064	
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0070	0.0070	After 500 hrs at 60Å°C with 95% RH
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0132	0.0132	After 500 hrs at 60Å°C with 95% RH
	@Frequency 50 Hz	@Frequency 50 Hz	

Descriptive Properties	Value	Comments
Color	Grey	
Thermal Impedance	0.57Å°C/W	FTM P-3010; ASTM D5470

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