

## Fujipoly Industries Sarcon<sup>®</sup> 30GTR Thin-Film GTR

Category : Polymer , Thermoset , Silicone

### Material Notes:

Sarcon TR is Fujipolys originally developed High Heat Conductive Silicone Rubber. Fine, high heat conductive ceramic particles are mixed with insulative silicone rubber. Sarcon GTR 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-30GTR-Thin-Film-GTR.php](http://www.lookpolymers.com/polymer_Fujipoly-Industries-Sarcon-30GTR-Thin-Film-GTR.php)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	92	92	ASTM D2240
	92	92	150°C for 1,000 hrs; ASTM D2240
	92	92	200°C for 1,000 hrs; ASTM D2240
	92	92	60°C for 500 hrs; ASTM D2240
Tensile Strength, Yield	23.333 MPa	3384.2 psi	150°C for 1,000 hrs
	28.33 MPa	4109 psi	200°C for 1,000 hrs; ASTM D1458
	36.6 MPa	5310 psi	
Elongation at Yield	<= 2.0 %	<= 2.0 %	
	<= 2.0 %	<= 2.0 %	150°C for 1,000 hrs; ASTM D1458
	<= 2.0 %	<= 2.0 %	200°C for 1,000 hrs; ASTM D1458

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	1.30e+13 ohm-cm	1.30e+13 ohm-cm	60°C for 500 hrs
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
	8.10e+15 ohm-cm	8.10e+15 ohm-cm	200°C for 1,000 hrs
	8.40e+15 ohm-cm	8.40e+15 ohm-cm	150°C for 1,000 hrs

Electrical Properties	3.1 Metric	3.1 English	Comments hrs at 200Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.1	3.1	After 1000 hrs at 200Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.2	3.2	After 1000 hrs at 200Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	3.3	3.3	After 1000 hrs at 150Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	3.3	3.3	After 1000 hrs at 150Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.3	3.3	After 1000 hrs at 150Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.6	3.6	After 500 hrs at 60Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.7	3.7	After 500 hrs at 60Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.9	3.9	After 500 hrs at 60Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Strength	5.50 kV/mm	140 kV/in	AC 60 Hz; 200Â°C for 1,000 hrs
	6.00 kV/mm	152 kV/in	60Â°C for 500 hrs
	7.00 kV/mm	178 kV/in	AC 60 Hz
	7.30 kV/mm	185 kV/in	150Â°C for 1,000 hrs
Dielectric Breakdown	7000 V	7000 V	Withstand Voltage [V/min]; AC 60 Hz
Dissipation Factor	0.0010	0.0010	After 1000 hrs at 150Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0020	0.0020	After 1000 hrs at 150Â°C
	@Frequency 50 Hz	@Frequency 50 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

Electrical Properties	@Frequency 1000 Hz Metric 0.0030	@Frequency 1000 Hz English 0.0030	Comments
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	After 1000 hrs at 200Å°C
	0.0030	0.0030	After 1000 hrs at 150Å°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0030	0.0030	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0030	0.0030	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0050	0.0050	After 500 hrs at 60Å°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0070	0.0070	
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.020	0.020	After 500 hrs at 60Å°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.041	0.041	After 500 hrs at 60Å°C
	@Frequency 50 Hz	@Frequency 50 Hz	

Descriptive Properties	Value	Comments
Color	Grey-Green	
Thermal Impedance	0.66Å°C/W	FTM P-3010; ASTM D5470
Thermal Impedance AD Type	0.93Å°C/W	FTM P-3010; ASTM D5470

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