

Fujipoly Industries Sarcon[®] 20GTR 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-20GTR-Thin-Film-GTR.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	87	87	ASTM D2240
	87	87	60 [°] C for 500 hrs; ASTM D2240
	89	89	150 [°] C for 1,000 hrs; ASTM D2240
	89	89	200 [°] C for 1,000 hrs; ASTM D2240
Tensile Strength, Yield	32.0 MPa	4640 psi	200 [°] C for 1,000 hrs; ASTM D1458
	38.5 MPa	5580 psi	150 [°] C for 1,000 hrs
	55.0 MPa	7980 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	2.30e+12 ohm-cm	2.30e+12 ohm-cm	60 [°] C for 500 hrs
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
	8.50e+15 ohm-cm	8.50e+15 ohm-cm	150 [°] C for 1,000 hrs
	9.80e+15 ohm-cm	9.80e+15 ohm-cm	200 [°] C for 1,000 hrs

Electrical Properties	^{2.7} Metric	^{2.7} English	Comments hrs at 150Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	2.7	2.7	After 1000 hrs at 200Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	2.7	2.7	After 1000 hrs at 150Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	2.7	2.7	After 1000 hrs at 200Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	2.7	2.7	After 1000 hrs at 150Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	2.7	2.7	After 1000 hrs at 200Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.4	3.4	After 500 hrs at 60Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.4	3.4	After 500 hrs at 60Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.6	3.6	After 500 hrs at 60Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Strength	4.00 kV/mm	102 kV/in	60Â°C for 500 hrs
	4.10 kV/mm	104 kV/in	AC 60 Hz; 200Â°C for 1,000 hrs
	6.00 kV/mm	152 kV/in	150Â°C for 1,000 hrs
	6.50 kV/mm	165 kV/in	AC 60 Hz
Dielectric Breakdown	6000 V	6000 V	Withstand Voltage [V/min]; AC 60 Hz
Dissipation Factor	0.0020	0.0020	After 1000 hrs at 150Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0030	0.0030	After 1000 hrs at 150Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0030	0.0030	After 1000 hrs at 200Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0030	0.0030	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 50 Hz	@Frequency 50 Hz	
	0.0030	0.0030	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0040	0.0040	
	@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	
	0.017	0.017	After 500 hrs at 60Å°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.052	0.052	After 500 hrs at 60Å°C
	@Frequency 50 Hz	@Frequency 50 Hz	

Descriptive Properties	Value	Comments
Color	Grey-Green	
Thermal Impedance	0.56Å°C/W	FTM P-3010; ASTM D5470
Thermal Impedance AD Type	0.83Å°C/W	FTM P-3010; ASTM D5470

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