

Fujipoly Industries Sarcon® 45T Thin-Film TR

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-45T-Thin-Film-TR.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	73	73	60°C for 500 hrs; ASTM D2240
	75	75	ASTM D2240
	85	85	150°C for 1,000 hrs; ASTM D2240
	87	87	200°C for 1,000 hrs; ASTM D2240
Tensile Strength, Yield	5.11 MPa	741 psi	
	5.77 MPa	837 psi	150°C for 1,000 hrs
	7.11 MPa	1030 psi	200°C for 1,000 hrs
Elongation at Yield	40 %	40 %	200°C for 1,000 hrs
	60 %	60 %	150°C for 1,000 hrs
	100 %	100 %	
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	7.40e+13 ohm-cm	7.40e+13 ohm-cm	60°C for 500 hrs
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
	6.50e+15 ohm-cm	6.50e+15 ohm-cm	150°C for 1,000 hrs

Electrical Properties	6.90e+15 ohm-cm Metric	6.90e+15 ohm-cm English	200Â°C for 1,000 hrs Comments
Dielectric Constant	4.4	4.4	After 1000 hrs at 150Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	4.4	4.4	After 1000 hrs at 150Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	4.4	4.4	After 1000 hrs at 150Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.5	4.5	After 1000 hrs at 200Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.5	4.5	After 1000 hrs at 200Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	4.5	4.5	After 1000 hrs at 200Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	4.9	4.9	After 500 hrs at 60Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	5.0	5.0	After 500 hrs at 60Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	5.2	5.2	After 500 hrs at 60Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Strength	7.00 kV/mm	178 kV/in	60Â°C for 500 hrs
	10.0 kV/mm	254 kV/in	AC 60 Hz; 150Â°C for 1,000 hrs
	10.0 kV/mm	254 kV/in	AC 60 Hz; 200Â°C for 1,000 hrs
	11.0 kV/mm	279 kV/in	AC 60 Hz
Dielectric Breakdown	8000 V	8000 V	Withstand Voltage [V/min]; AC 60 Hz
Dissipation Factor	0.0020	0.0020	After 1000 hrs at 150Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0020	0.0020	After 1000 hrs at 150Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0020	0.0020	After 1000 hrs at 150Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Electrical Properties	0.0020 Metric	0.0020 English	Comments
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0020	0.0020	After 1000 hrs at 200Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0020	0.0020	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0030	0.0030	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0030	0.0030	After 1000 hrs at 200Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0040	0.0040	
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0050	0.0050	After 500 hrs at 60Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.016	0.016	After 500 hrs at 60Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.039	0.039	After 500 hrs at 60Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	

Descriptive Properties	Value	Comments
Color	Gray-Green	
Thermal Impedance	0.73Â°C/W	FTM P-3010; ASTM D5470

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