

Fujipoly Industries Sarcon[®] 85T 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-85T-Thin-Film-TR.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	74	74	60 [°] C for 500 hrs; ASTM D2240
	75	75	ASTM D2240
	83	83	150 [°] C for 1,000 hrs; ASTM D2240
	86	86	200 [°] C for 1,000 hrs; ASTM D2240
Tensile Strength, Yield	5.058 MPa	733.6 psi	
	5.411 MPa	784.8 psi	150 [°] C for 1,000 hrs
	6.00 MPa	870 psi	200 [°] C for 1,000 hrs
Elongation at Yield	40 %	40 %	200 [°] C for 1,000 hrs
	70 %	70 %	150 [°] C for 1,000 hrs
	100 %	100 %	
Tear Strength	0.800 kN/m	4.56 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	1.10e+13 ohm-cm	1.10e+13 ohm-cm	60 [°] C for 500 hrs
	3.70e+14 ohm-cm	3.70e+14 ohm-cm	150 [°] C for 1,000 hrs
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	

Electrical Properties	6.70e+15 ohm-cm Metric	6.70e+15 ohm-cm English	200Å°C for 1,000 hrs Comments
Dielectric Constant	4.8	4.8	After 1000 hrs at 150Å°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.8	4.8	After 1000 hrs at 150Å°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	4.9	4.9	After 1000 hrs at 200Å°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	4.9	4.9	After 1000 hrs at 200Å°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.9	4.9	After 1000 hrs at 150Å°C
	@Frequency 50 Hz	@Frequency 50 Hz	
4.9	4.9	After 1000 hrs at 200Å°C	
@Frequency 50 Hz	@Frequency 50 Hz		
5.0	5.0	After 500 hrs at 60Å°C	
@Frequency 1e+6 Hz	@Frequency 1e+6 Hz		
5.1	5.1	After 500 hrs at 60Å°C	
@Frequency 1000 Hz	@Frequency 1000 Hz		
5.2	5.2	After 500 hrs at 60Å°C	
@Frequency 50 Hz	@Frequency 50 Hz		
Dielectric Strength	10.0 kV/mm	254 kV/in	60Å°C for 500 hrs
	15.0 kV/mm	381 kV/in	AC 60 Hz; 150Å°C for 1,000 hrs
	15.0 kV/mm	381 kV/in	AC 60 Hz
	16.0 kV/mm	406 kV/in	AC 60 Hz; 200Å°C for 1,000 hrs
Dielectric Breakdown	10000 V	10000 V	Withstand Voltage [V/min]; AC 60 Hz
Dissipation Factor	0.0020	0.0020	After 1000 hrs at 150Å°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0020	0.0020	After 1000 hrs at 200Å°C
@Frequency 1000 Hz	@Frequency 1000 Hz		
0.0020	0.0020	After 1000 hrs at 200Å°C	
@Frequency 1e+6 Hz	@Frequency 1e+6 Hz		

Electrical Properties	0.0020 Metric	0.0020 English	Comments
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0030	0.0030	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0030	0.0030	After 500 hrs at 60Â°C
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0030	0.0030	
	@Frequency 50 Hz	@Frequency 50 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 150Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	
	0.0030	0.0030	After 1000 hrs at 150Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0090	0.0090	After 500 hrs at 60Â°C
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.022	0.022	After 500 hrs at 60Â°C
	@Frequency 50 Hz	@Frequency 50 Hz	

Descriptive Properties	Value	Comments
Color	Gray-Green	
Thermal Impedance	1.35Â°C/W	FTM P-3010; ASTM D5470

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