

Fujipoly Industries Sarcon[®] 15GTR 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-15GTR-Thin-Film-GTR.php

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------|------------|---------------------------------|
| Hardness, Shore A | 87 | 87 | ASTM D2240 |
| | 87 | 87 | 150°C for 1,000 hrs; ASTM D2240 |
| | 87 | 87 | 60°C for 500 hrs; ASTM D2240 |
| | 88 | 88 | 200°C for 1,000 hrs; ASTM D2240 |
| Tensile Strength, Yield | 44.0 MPa | 6380 psi | 200°C for 1,000 hrs; ASTM D1458 |
| | 60.666 MPa | 8798.9 psi | 150°C for 1,000 hrs |
| | 73.3 MPa | 10600 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 | 9.10e+13 ohm-cm | 9.10e+13 ohm-cm | 60°C for 500 hrs |
| | 1.00e+15 ohm-cm | 1.00e+15 ohm-cm | |
| | 1.10e+15 ohm-cm | 1.10e+15 ohm-cm | 200°C for 1,000 hrs |
| | 9.10e+15 ohm-cm | 9.10e+15 ohm-cm | 150°C for 1,000 hrs |

| Electrical Properties | ^{2.1} Metric | ^{2.1} English | Comments hrs at 200Â°C |
|-----------------------|--------------------------|---------------------------|-------------------------------------|
| | @Frequency 50 Hz | @Frequency 50 Hz | |
| | 2.1 | 2.1 | After 1000 hrs at 200Â°C |
| | @Frequency 1000 Hz | @Frequency 1000 Hz | |
| | 2.1 | 2.1 | After 1000 hrs at 200Â°C |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| | 2.2 | 2.2 | After 1000 hrs at 150Â°C |
| | @Frequency 1000 Hz | @Frequency 1000 Hz | |
| | 2.3 | 2.3 | After 1000 hrs at 150Â°C |
| | @Frequency 50 Hz | @Frequency 50 Hz | |
| | 2.3 | 2.3 | After 1000 hrs at 150Â°C |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| | 2.7 | 2.7 | After 500 hrs at 60Â°C |
| | @Frequency 50 Hz | @Frequency 50 Hz | |
| | 2.7 | 2.7 | After 500 hrs at 60Â°C |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| | 2.7 | 2.7 | After 500 hrs at 60Â°C |
| | @Frequency 1000 Hz | @Frequency 1000 Hz | |
| Dielectric Strength | 3.00 kV/mm | 76.2 kV/in | 60Â°C for 500 hrs |
| | 3.00 kV/mm | 76.2 kV/in | AC 60 Hz; 200Â°C for 1,000 hrs |
| | 3.50 kV/mm | 88.9 kV/in | 150Â°C for 1,000 hrs |
| | 4.00 kV/mm | 102 kV/in | AC 60 Hz |
| Dielectric Breakdown | 4000 V | 4000 V | Withstand Voltage [V/min]; AC 60 Hz |
| Dissipation Factor | 0.0020 | 0.0020 | After 1000 hrs at 200Â°C |
| | @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 | After 1000 hrs at 150Â°C |
| | @Frequency 50 Hz | @Frequency 50 Hz | |
| | 0.0020 | 0.0020 | After 1000 hrs at 150Â°C |

| Electrical Properties | @Frequency 1000 Hz Metric | @Frequency 1000 Hz English | Comments |
|-----------------------|------------------------------|-------------------------------|--------------------------|
| | 0.0020 | 0.0020 | After 1000 hrs at 150Å°C |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| | 0.0030 | 0.0030 | After 1000 hrs at 200Å°C |
| | @Frequency 50 Hz | @Frequency 50 Hz | |
| | 0.0040 | 0.0040 | |
| | @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 | |
| | 0.0080 | 0.0080 | |
| | @Frequency 50 Hz | @Frequency 50 Hz | |
| | 0.0080 | 0.0080 | After 500 hrs at 60Å°C |
| | @Frequency 1000 Hz | @Frequency 1000 Hz | |
| | 0.024 | 0.024 | After 500 hrs at 60Å°C |
| | @Frequency 50 Hz | @Frequency 50 Hz | |

| Descriptive Properties | Value | Comments |
|---------------------------|------------|------------------------|
| Color | Grey-Green | |
| Thermal Impedance | 0.51Å°C/W | FTM P-3010; ASTM D5470 |
| Thermal Impedance AD Type | 0.78Å°C/W | FTM P-3010; ASTM D5470 |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China