

## Fujipoly Industries Sarcon<sup>®</sup> GR-Fd Gap Filler Pad

Category : Polymer , Thermoset , Silicone

### Material Notes:

Sarcon GR-d is a highly conformable, thermally conductive material in areas where space between surfaces is uneven and surface textures vary. GR-Fd has a mesh embedded overall. Information provided by Fujipoly Industries

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Fujipoly-Industries-Sarcon-GR-Fd-Gap-Filler-Pad.php](http://www.lookpolymers.com/polymer_Fujipoly-Industries-Sarcon-GR-Fd-Gap-Filler-Pad.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.60 g/cc	2.60 g/cc	60 <sup>°</sup> C for 1,000 hrs with 90% RH; JIS-K-6220
	2.60 g/cc	2.60 g/cc	150 <sup>°</sup> C for 1,000 hrs; JIS-K-6220
	2.60 g/cc	2.60 g/cc	JIS-K-6220; ASTM D-792
	2.60 g/cc	2.60 g/cc	70 <sup>°</sup> C for 1,000 hrs; JIS-K-6220

Mechanical Properties	Metric	English	Comments
Hardness, Shore C	20	20	60 <sup>°</sup> C for 1,000 hrs with 90% RH; SRIS0101
	22	22	70 <sup>°</sup> C for 1,000 hrs; SRIS0101
	29	29	150 <sup>°</sup> C for 1,000 hrs; SRIS0101
Hardness, Shore OO	49	49	SRIS0101; ASTM D-2240
Tensile Strength, Yield	0.300 MPa	43.5 psi	150 <sup>°</sup> C for 1,000 hrs; JIS-K-6251(#2)
	0.500 MPa	72.5 psi	JIS-K-6251(#2)/ASTM D-412
	0.600 MPa	87.0 psi	60 <sup>°</sup> C for 1,000 hrs with 90% RH; JIS-K-6251(#2)
	0.900 MPa	131 psi	70 <sup>°</sup> C for 1,000 hrs; JIS-K-6251(#2)
Elongation at Yield	50 %	50 %	150 <sup>°</sup> C for 1,000 hrs; JIS-K-6251(#2)
	50 %	50 %	60 <sup>°</sup> C for 1,000 hrs with 90% RH; JIS-K-6251(#2)
	50 %	50 %	70 <sup>°</sup> C for 1,000 hrs; JIS-K-6251(#2)
	60 %	60 %	JIS-K-6251(#2)/ASTM D-412
Tear Strength	1.00 kN/m	5.71 pli	150 <sup>°</sup> C for 1,000 hrs; JIS-K-6252 (Angle)
	2.00 kN/m	11.4 pli	70 <sup>°</sup> C for 1,000 hrs; JIS-K-6252 (Angle)

Mechanical Properties	Metric	English	Comments (Angle)/ASTM D-624
	2.00 kN/m	11.4 pli	60°C for 1,000 hrs with 90% RH; JIS-K-6252 (Angle)

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.50 W/m-K	10.4 BTU-in/hr-ft <sup>2</sup> - °F	JIS-R-2618; ASTM D2326
	1.50 W/m-K	10.4 BTU-in/hr-ft <sup>2</sup> - °F	60°C for 1,000 hrs with 90% RH; JIS-R-2618
	1.50 W/m-K	10.4 BTU-in/hr-ft <sup>2</sup> - °F	70°C for 1,000 hrs; JIS-R-2618
Maximum Service Temperature, Air	200 °C	392 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.10e+13 ohm-cm	1.10e+13 ohm-cm	60°C for 1,000 hrs with 90% RH; JIS-K-6249
	1.00e+14 ohm-cm	1.00e+14 ohm-cm	JIS-K-6249/ASTM D257
	1.10e+15 ohm-cm	1.10e+15 ohm-cm	150°C for 1,000 hrs; JIS-K-6249
	7.40e+15 ohm-cm	7.40e+15 ohm-cm	70°C for 1,000 hrs; JIS-K-6249
Dielectric Strength	12.0 kV/mm	305 kV/in	JIS-K-6249; ASTM D-149
	13.0 kV/mm	330 kV/in	150°C for 1,000 hrs; JIS-K-6249
	15.0 kV/mm	381 kV/in	70°C for 1,000 hrs; JIS-K-6249
	20.0 kV/mm	508 kV/in	60°C for 1,000 hrs with 90% RH; JIS-K-6249
Dielectric Breakdown	9000 V	9000 V	Withstand Voltage [V/min]; JIS-K-6249; ASTM D-149

Descriptive Properties	Value	Comments
Color	Dark Grey	

## Contact Songhan Plastic Technology Co.,Ltd.

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