

## Fujipoly Industries Sarcon<sup>®</sup> NR-c Gap Filler Pad Non-Silicone

Category : Polymer

### Material Notes:

Sarcon NR-c consists of an Acrylate resin and some thermal conductive fillers. It is a highly conformable/ thermally conductive material in a versatile sheet form that makes reliable and complete physical contact. Not electrically conductive. Information provided by Fujipoly Industries

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Fujipoly-Industries-Sarcon-NR-c-Gap-Filler-Pad-Non-Silicone.php](http://www.lookpolymers.com/polymer_Fujipoly-Industries-Sarcon-NR-c-Gap-Filler-Pad-Non-Silicone.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.10 g/cc	2.10 g/cc	JIS-K-6220; ASTM D-792
	2.10 g/cc	2.10 g/cc	-40°C for 1,000 hrs; JIS-K-6220; ASTM D 792
	2.10 g/cc	2.10 g/cc	-40°C for 30 min and 125°C for 30 min. for 1,000 times; JIS-K-6220; ASTM D 792
	2.10 g/cc	2.10 g/cc	85°C for 1,000 hrs with 85% RH; JIS-K-6220; ASTM D 792
	2.10 g/cc	2.10 g/cc	80°C for 1,000 hrs; JIS-K-6220; ASTM D 792
	2.20 g/cc	2.20 g/cc	125°C for 1,000 hrs; JIS-K-6220; ASTM D 792
	2.20 g/cc	2.20 g/cc	125°C for 1,000 hrs; JIS-K-6220; ASTM D 792

Mechanical Properties	Metric	English	Comments
Hardness, Shore C	28	28	85°C for 1,000 hrs with 85% RH; SRIS0101S
	30.0	30.0	-40°C for 1,000 hrs; SRIS0101S
	30	30	80°C for 1,000 hrs; SRIS0101S
	37.0	37.0	-40°C for 30 min and 125°C for 30 min. for 1,000 times; SRIS0101S
	55	55	125°C for 1,000 hrs; SRIS0101S
	53	53	ASTM D-2240
Tensile Strength, Yield	0.200 MPa	29.0 psi	85°C for 1,000 hrs with 85% RH; JIS-K-6251(#2); ASTM D412
	0.200 MPa	29.0 psi	-40°C for 1,000 hrs; JIS-K-6251(#2); ASTM D412
	0.200 MPa	29.0 psi	JIS-K-6251(#2)/ASTM D-412
	0.300 MPa	43.5 psi	80°C for 1,000 hrs; JIS-K-6251(#2); ASTM D412

Mechanical Properties	Metric	English	Comments
	0.800 MPa	116 psi	125Å°C for 1,000 hrs; JIS-K-6251(#2); ASTM D412
	0.800 MPa	116 psi	-40Å°C for 30 min and 125Å°C for 30 min. for 1,000 times; JIS-K-6251(#2); ASTM D412
Elongation at Yield	20 %	20 %	125Å°C for 1,000 hrs; JIS-K-6251(#2); ASTM D412
	25.0 %	25.0 %	-40Å°C for 30 min and 125Å°C for 30 min. for 1,000 times; JIS-K-6251(#2); ASTM D412
	150 %	150 %	JIS-K-6251(#2)/ASTM D-412
	180 %	180 %	80Å°C for 1,000 hrs; JIS-K-6251(#2); ASTM D412
	180 %	180 %	85Å°C for 1,000 hrs with 85% RH; JIS-K-6251(#2); ASTM D412
	180 %	180 %	-40Å°C for 1,000 hrs; JIS-K-6251(#2); ASTM D412
Tear Strength	1.50 kN/m	8.56 pli	JIS-K-6252 (Angle)/ASTM D-624
	1.70 kN/m	9.70 pli	-40Å°C for 1,000 hrs; JIS-K-6252(Angle); ASTM D624
	1.80 kN/m	10.3 pli	80Å°C for 1,000 hrs; JIS-K-6252(Angle)/ASTM D 624
	2.00 kN/m	11.4 pli	85Å°C for 1,000 hrs with 85% RH; JIS-K-6252(Angle); ASTM D 624
	5.70 kN/m	32.5 pli	-40Å°C for 30 min and 125Å°C for 30 min. for 1,000 times; JIS-K-6252(Angle); ASTM D 624
	7.40 kN/m	42.2 pli	125Å°C for 1,000 hrs; JIS-K-6252 (Angle); ASTM D 624

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.50 W/m-K	10.4 BTU-in/hr-ftÅ²-Å°F	JIS-R-2618; ASTM D2326
Maximum Service Temperature, Air	105 Å°C	221 Å°F	
Minimum Service Temperature, Air	-40.0 Å°C	-40.0 Å°F	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.00e+6 ohm-cm	7.00e+6 ohm-cm	-40Å°C for 1,000 hrs; JIS-K-6249; ASTM D257

Electrical Properties	2.00e+11 ohm-cm Metric	2.00e+11 ohm-cm English	JIS-K-6249/ASTM D257 Comments
	8.00e+11 ohm-cm	8.00e+11 ohm-cm	85Â°C for 1,000 hrs with 85% RH; JIS-K-6249; ASTM D257
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	-40Â°C for 30 min and 125Â°C for 30 min. for 1,000 times; JIS-K-6249; ASTM D149
	2.00e+12 ohm-cm	2.00e+12 ohm-cm	80Â°C for 1,000 hrs; JIS-K-6249; ASTM D 257
	3.00e+13 ohm-cm	3.00e+13 ohm-cm	125Â°C for 1,000 hrs; JIS-K-6249; ASTM D257
Dielectric Strength	9.00 kV/mm	229 kV/in	-40Â°C for 1,000 hrs; JIS-K-6249; ASTM D149
	11.0 kV/mm	279 kV/in	JIS-K-6249; ASTM D-149
	18.0 kV/mm	457 kV/in	80Â°C for 1,000 hrs; JIS-K-6249; ASTM D 149
	26.0 kV/mm	660 kV/in	125Â°C for 1,000 hrs; JIS-K-6249; ASTM D 149
	27.0 kV/mm	686 kV/in	-40Â°C for 30 min and 125Â°C for 30 min. for 1,000 times; JIS-K-6249; ASTM D 149

Descriptive Properties	Value	Comments
Color	Grey	

## Contact Songhan Plastic Technology Co.,Ltd.

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