

Fujipoly Industries Sarcon[®] GR-d 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. Information provided by Fujipoly Industries

Order this product through the following link:

http://www.lookpolymers.com/polymer_Fujipoly-Industries-Sarcon-GR-d-Gap-Filler-Pad.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Shore C	20	20	60°C for 1,000 hrs with 90% RH; SRIS0101
	22	22	70°C for 1,000 hrs; SRIS0101
	29	29	150°C for 1,000 hrs; SRIS0101
Hardness, Shore OO	49	49	SRIS0101; ASTM D-2240
Tensile Strength, Yield	0.300 MPa	43.5 psi	JIS-K-6251(#2)/ASTM D-412
	0.300 MPa	43.5 psi	150°C for 1,000 hrs; JIS-K-6251(#2)
	0.300 MPa	43.5 psi	60°C for 1,000 hrs with 90% RH; JIS-K-6251(#2)
	0.300 MPa	43.5 psi	70°C for 1,000 hrs; JIS-K-6251(#2)
Elongation at Yield	70 %	70 %	70°C for 1,000 hrs; JIS-K-6251(#2)
	80 %	80 %	150°C for 1,000 hrs; JIS-K-6251(#2)
	100 %	100 %	60°C for 1,000 hrs with 90% RH; JIS-K-6251(#2)
Tear Strength	1.00 kN/m	5.71 pli	JIS-K-6251(#2)/ASTM D-412
	1.00 kN/m	5.71 pli	60°C for 1,000 hrs with 90% RH; JIS-K-6252 (Angle)
	1.00 kN/m	5.71 pli	150°C for 1,000 hrs; JIS-K-6252 (Angle)

Mechanical Properties	Metric	English	Comments
	1.00 kN/m	5.71 pli	1,000 hrs; JIS-K-6252 (Angle)
	1.00 kN/m	5.71 pli	JIS-K-6252 (Angle)/ASTM D-624

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.50 W/m-K	10.4 BTU-in/hr-ft ² - °F	JIS-R-2618; ASTM D2326
	1.50 W/m-K	10.4 BTU-in/hr-ft ² - °F	60°C for 1,000 hrs with 90% RH; JIS-R-2618
	1.50 W/m-K	10.4 BTU-in/hr-ft ² - °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	7.40e+13 ohm-cm	7.40e+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	70°C for 1,000 hrs; JIS-K-6249
	2.60e+15 ohm-cm	2.60e+15 ohm-cm	150°C for 1,000 hrs; JIS-K-6249
Dielectric Strength	18.0 kV/mm	457 kV/in	JIS-K-6249; ASTM D-149
	20.0 kV/mm	508 kV/in	60°C for 1,000 hrs with 90% RH; JIS-K-6249
	20.0 kV/mm	508 kV/in	70°C for 1,000 hrs; JIS-K-6249
	21.0 kV/mm	533 kV/in	150°C for 1,000 hrs; JIS-K-6249
Dielectric Breakdown	14000 V	14000 V	Withstand Voltage [V/min]; JIS-K-6249; ASTM D-149

Descriptive Properties	Value	Comments
Color	Dark Grey	

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