

Fujipoly Industries Sarcon[®] GR-Hm Gap Filler Pad

Category : Polymer , Thermoset , Silicone

Material Notes:

Sarcon GR-m is a highly formable, thermally conductive gel material (no electricity conductive) in a versatile sheet form that easily fits and adheres to most all shapes and sizes of components, and make reliable and complete physical contact. GR-Hm has a hardened top surface. Information provided by Fujipoly Industries

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	3.20 g/cc	3.20 g/cc	60°C for 1,000 hrs with 90% RH; JIS-K-6220
	3.20 g/cc	3.20 g/cc	70°C for 1,000 hrs; JIS-K-6220
	3.20 g/cc	3.20 g/cc	120°C for 1,000 hrs; JIS-K-6220
	3.20 g/cc	3.20 g/cc	JIS-K-6220; ASTM D-792
	3.20 g/cc	3.20 g/cc	150°C for 1,000 hrs; JIS-K-6220

Mechanical Properties	Metric	English	Comments
Hardness, Shore C	30	30	60°C for 1,000 hrs with 90% RH; SRIS0101
	42	42	70°C for 1,000 hrs; SRIS0101
	62	62	120°C for 1,000 hrs; SRIS0101
	75	75	150°C for 1,000 hrs; SRIS0101
Hardness, Shore OO	52	52	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	60°C for 1,000 hrs with 90% RH; JIS-K-6251(#2)
	0.400 MPa	58.0 psi	70°C for 1,000 hrs; JIS-K-6251(#2)
	0.400 MPa	58.0 psi	120°C for 1,000 hrs; JIS-K-6251(#2)
	0.700 MPa	102 psi	150°C for 1,000 hrs; JIS-K-6251(#2)
Elongation at Yield	5.0 %	5.0 %	150°C for 1,000 hrs; JIS-K-6251(#2)
	10 %	10 %	120°C for 1,000 hrs; JIS-K-6251(#2)
	30 %	30 %	70°C for 1,000 hrs; JIS-K-6251(#2)

Mechanical Properties	Metric	English	Comments
	80 %	80 %	1000 hrs with 90% RH; JIS-K-6251 (#2)
			JIS-K-6251(#2)/ASTM D-412
Tear Strength	1.00 kN/m	5.71 pli	60°C for 1,000 hrs with 90% RH; JIS-K-6252
	1.00 kN/m	5.71 pli	120°C for 1,000 hrs; JIS-K-6252 (Angle)
	1.00 kN/m	5.71 pli	70°C for 1,000 hrs; JIS-K-6252 (Angle)
	1.00 kN/m	5.71 pli	JIS-K-6252 (Angle)/ASTM D-624
	2.00 kN/m	11.4 pli	150°C for 1,000 hrs; JIS-K-6252 (Angle)

Thermal Properties	Metric	English	Comments
Thermal Conductivity	6.00 W/m-K	41.6 BTU-in/hr-ft ² - °F	JIS-R-2618; ASTM D2326
	6.00 W/m-K	41.6 BTU-in/hr-ft ² - °F	120°C for 1,000 hrs; JIS-R-2618
	6.00 W/m-K	41.6 BTU-in/hr-ft ² - °F	150°C for 1,000 hrs; JIS-R-2618
	6.00 W/m-K	41.6 BTU-in/hr-ft ² - °F	60°C for 1,000 hrs with 90% RH; JIS-R-2618
	6.00 W/m-K	41.6 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	4.90e+11 ohm-cm	4.90e+11 ohm-cm	70°C for 1,000 hrs; JIS-K-6249
	2.80e+12 ohm-cm	2.80e+12 ohm-cm	120°C for 1,000 hrs; JIS-K-6249
	9.20e+12 ohm-cm	9.20e+12 ohm-cm	60°C for 1,000 hrs with 90% RH; JIS-K-6249
	1.00e+13 ohm-cm	1.00e+13 ohm-cm	JIS-K-6249/ASTM D257
	5.80e+13 ohm-cm	5.80e+13 ohm-cm	150°C for 1,000 hrs; JIS-K-6249
Dielectric Strength	17.0 kV/mm	432 kV/in	70°C for 1,000 hrs; JIS-K-6249
	18.0 kV/mm	457 kV/in	60°C for 1,000 hrs with 90% RH; JIS-K-6249

Electrical Properties	Metric	English	Comments
	19.0 kV/mm	483 kV/in	JIS-K-6249; ASTM D-149 120Â°C for 1,000 hrs; JIS-K-6249
	20.0 kV/mm	508 kV/in	150Â°C for 1,000 hrs; JIS-K-6249
Dielectric Breakdown	13000 V	13000 V	Withstand Voltage [V/min]; JIS-K-6249; ASTM D-149

Descriptive Properties	Value	Comments
Color	Grey	

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