

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

Category : Polymer , Thermoset , Silicone

Material Notes:

Sarcon GR-n 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-Hn 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-Hn-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 with 90% RH; JIS-K-6220 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-----------|----------|--|
| Hardness, Shore C | 50 | 50 | SRIS0101 |
| | 63 | 63 | 60 [°] C for 1,000 hrs with 90% RH; SRIS0101 |
| | 65 | 65 | 70 [°] C for 1,000 hrs; SRIS0101 |
| | 90 | 90 | 150 [°] C for 1,000 hrs; SRIS0101 |
| | 90 | 90 | 150 [°] C for 1,000 hrs with 90% RH; SRIS0101 |
| Hardness, Shore OO | 64 | 64 | ASTM D2240 |
| Tensile Strength, Yield | 0.200 MPa | 29.0 psi | 120 [°] C for 1,000 hrs; JIS-K-6251(#2) |
| | 0.200 MPa | 29.0 psi | 150 [°] C for 1,000 hrs with 90% RH; 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) |
| | 0.300 MPa | 43.5 psi | JIS-K-6251(#2)/ASTM D-412 |
| Elongation at Yield | 0.00 % | 0.00 % | 150 [°] C for 1,000 hrs with 90% RH; JIS-K-6251(#2) |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-----------|----------|---|
| | 10 % | 10 % | 1,000 hrs; JIS-K-6251(#2) 60°C for 1,000 hrs with 90% RH; JIS-K-6251(#2) |
| | 25 % | 25 % | 70°C for 1,000 hrs; JIS-K-6251(#2) |
| | 40 % | 40 % | 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 | 150°C for 1,000 hrs with 90% RH; JIS-K-6252 (Angle) |
| | 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 |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|------------|------------------------------------|---|
| Thermal Conductivity | 7.90 W/m-K | 54.8 BTU-in/hr-ft ² -°F | JIS-R-2618; ASTM D2326 |
| | 7.90 W/m-K | 54.8 BTU-in/hr-ft ² -°F | 120°C for 1,000 hrs; JIS-R-2618 |
| | 7.90 W/m-K | 54.8 BTU-in/hr-ft ² -°F | 150°C for 1,000 hrs with 90% RH; JIS-R-2618 |
| | 7.90 W/m-K | 54.8 BTU-in/hr-ft ² -°F | 60°C for 1,000 hrs with 90% RH; JIS-R-2618 |
| | 7.90 W/m-K | 54.8 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 | 1.10e+11 ohm-cm | 1.10e+11 ohm-cm | 60°C for 1,000 hrs with 90% RH; JIS-K-6249 |
| | 1.60e+11 ohm-cm | 1.60e+11 ohm-cm | 120°C for 1,000 hrs; JIS-K-6249 |
| | 6.50e+11 ohm-cm | 6.50e+11 ohm-cm | JIS-K-6249/ASTM D257 |
| | 9.30e+11 ohm-cm | 9.30e+11 ohm-cm | 70°C for 1,000 hrs; JIS-K-6249 |
| | 7.60e+14 ohm-cm | 7.60e+14 ohm-cm | 150°C for 1,000 hrs with 90% RH; JIS-K-6249 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|------------|-----------|---|
| | 18.0 kV/mm | 457 kV/in | 1000 hrs with 90% RH; JIS-K-6249 |
| | 18.0 kV/mm | 457 kV/in | 70Â°C for 1,000 hrs; JIS-K-6249 |
| | 18.0 kV/mm | 457 kV/in | JIS-K-6249; ASTM D-149 |
| | 18.0 kV/mm | 457 kV/in | 120Â°C for 1,000 hrs; JIS-K-6249 |
| | 20.0 kV/mm | 508 kV/in | 150Â°C for 1,000 hrs with 90% RH; JIS-K-6249 |
| Dielectric Breakdown | 11000 V | 11000 V | Withstand Voltage [V/min]; JIS-K-6249; ASTM D-149 |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Color | Grey | |

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