# Rogers Corporation Bisco™ BF-1000 Cellular Silicone Foam

**Category :** Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE) , Silicone , Silicone Foam

**Material Notes:**

Soft, low compression set silicone foam often specified to meet safely-conscious requirements. UL recognized for flame retardance.Applications: Low closure-force gaskets and seals, Vibration and shock isolation in electronic components and aircraft, Flame retardant, low toxicity insulation in aircraft and trains, Automotive airbag cushion seals, Industrial machinery insulationNo UV degradation per SAE J-1960. Ozone effect rating is 0 (no cracks) per ASTM D-1171. No staining per ASTM D-925(A). Passes AMS-3568 corrosion resistance. Passes SMP-800-C & BSS toxic gas emission rating. Passes hot flex at 230°C (446°F) per ASTM D-573.General BISCO™ silicone information: BISCO™ Cellular Silicones are used as sealing cushioning, vibration isolation, insulation, and thermal management gaskets. Their resistance to environmental extremes, mechanical resilience, and safety features lead to their use in transportation equipment, communications and electrical enclosures, electronic products and components, industrial machinery, and appliances.Data provided by Rogers Corporation.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Rogers-Corporation-Bisco-BF-1000-Cellular-Silicone-Foam.php

| Physical Properties | Metric | English | Comments |
|---|---|---|---|
| Density | 0.192 g/cc | 0.00694 lb/in³ | ASTM D3574 |
| Water Absorption | 3.5 % | 3.5 % | ASTM D471 |

| Mechanical Properties | Metric | English | Comments |
|---|---|---|---|
| Tensile Strength, Ultimate | 0.241 MPa | 35.0 psi | ASTM D412 |
| Elongation at Break | 100 % | 100 % | ASTM D412 |
| Compressive Yield Strength | 0.0140 MPa | 2.03 psi | at 25% deflection; ASTM D1056 |
| Compression Set | <= 1.0 %<br>@Temperature 70.0 °C | <= 1.0 %<br>@Temperature 158 °F | ASTM D1056 |
| | <= 5.0 %<br>@Temperature 100 °C | <= 5.0 %<br>@Temperature 212 °F | ASTM D1056 |

| Thermal Properties | Metric | English | Comments |
|---|---|---|---|
| Thermal Conductivity | 0.0600 W/m-K | 0.416 BTU-in/hr-ft²-°F | ASTM C158 |
| Maximum Service Temperature, Air | 200 °C | 392 °F | Recommended use; SAE J-2236 |
| | 250 °C | 482 °F | Intermittent; Rogers internal test |
| Minimum Service Temperature, Air | -55.0 °C | -67.0 °F | Recommended use; SAE J-2236 |
| | | | Low temp embrittlement; ASTM |

| Thermal Properties | Metric | English | Comments |
|---|---|---|---|
| Brittleness Temperature | -55.0 °C | -67.0 °F | D746(B) |
| Flammability, UL94 | V-0 | V-0 | Listed (may vary with thickness, color, density) |
| Flame Spread Index | <= 25 | <= 25 | I<sub>S</sub>; ASTM E162 |
| Smoke Density | <= 20 min | <= 20 min | D<sub>X</sub> at 1.5 minutes; ASTM E662 |
| | <= 50 min | <= 50 min | D<sub>X</sub> at 4 minutes; ASTM E662 |
| Oxygen Index | 34 % | 34 % | ASTM D2863 |

| Electrical Properties | Metric | English | Comments |
|---|---|---|---|
| Electrical Resistivity | 1.00e+14 ohm-cm | 1.00e+14 ohm-cm | ASTM D257 |
| Dielectric Constant | 1.34 | 1.34 | |
| Dielectric Strength | 3.50 kV/mm | 88.9 kV/in | ASTM D150 |
| Arc Resistance | 90 sec | 90 sec | Dry; ASTM D495 |

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