

Rogers Corporation Bisco™ HT-820 Cellular Silicone Foam

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

Material Notes:

Firm grade silicone sponge. UL recognized for flame retardance. Applications: Gaskets where higher closure force is available or necessary, Cushions in heavier-load applications Gasketing and sealing rating is JMLU-2 (Listed) per UL 157. No 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-HT-820-Cellular-Silicone-Foam.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------|---------------------------|------------|
| Density | 0.384 g/cc | 0.0139 lb/in ³ | ASTM D3574 |
| Water Absorption | 0.80 % | 0.80 % | ASTM D471 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|----------------------|---------------------|-------------------------------|
| Tensile Strength, Ultimate | 0.414 MPa | 60.0 psi | ASTM D412 |
| Elongation at Break | 65 % | 65 % | ASTM D412 |
| Compressive Yield Strength | 0.0970 MPa | 14.1 psi | at 25% deflection; ASTM D1056 |
| Compression Set | <= 1.0 % | <= 1.0 % | ASTM D1056 |
| | @Temperature 70.0 °C | @Temperature 158 °F | |
| | <= 5.0 % | <= 5.0 % | ASTM D1056 |
| | @Temperature 100 °C | @Temperature 212 °F | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|-------------|-------------------------------------|--------------------------------------|
| Thermal Conductivity | 0.110 W/m-K | 0.763 BTU-in/hr-ft ² -°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 |
| Brittleness Temperature | -55.0 °C | -67.0 °F | Low temp embrittlement; ASTM D746(B) |

| Thermal Properties | Metric | English | Comments <small>Listed (may vary with thickness, color, density)</small> |
|--------------------|-----------|-----------|---|
| Flame Spread Index | <= 25 | <= 25 | I _S ; ASTM E162 |
| Smoke Density | <= 20 min | <= 20 min | D _X at 1.5 minutes; ASTM E662 |
| | <= 50 min | <= 50 min | D _X at 4 minutes; ASTM E662 |
| Oxygen Index | 42 % | 42 % | ASTM D2863 |

| Electrical Properties | Metric | English | Comments |
|------------------------|-----------------|-----------------|----------------|
| Electrical Resistivity | 1.00e+14 ohm-cm | 1.00e+14 ohm-cm | ASTM D257 |
| Dielectric Constant | 1.5 | 1.5 | |
| Dielectric Strength | 3.70 kV/mm | 94.0 kV/in | ASTM D150 |
| Arc Resistance | 96 sec | 96 sec | Dry; ASTM D495 |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China