

Rogers Corporation Bisco™ HT-870 Cellular Silicone Foam

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

Material Notes:

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-870-Cellular-Silicone-Foam.php

Physical Properties	Metric	English	Comments
Density	0.240 g/cc	0.00867 lb/in ³	ASTM D3574
Water Absorption	2.5 %	2.5 %	ASTM D471

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	0.280 MPa	40.6 psi	ASTM D412
Elongation at Break	90 %	90 %	ASTM D412
Compressive Yield Strength	0.0310 MPa	4.50 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	0.0700 W/m-K	0.486 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)
Flammability, UL94	V-0	V-0	Listed (may vary with thickness, color, density)

Flame Spread Index Thermal Properties	≤ 25 Metric	≤ 25 English	≤ 25 Comments
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	38 %	38 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Constant	1.38	1.38	
Dielectric Strength	3.50 kV/mm	88.9 kV/in	ASTM D150
Arc Resistance	91 sec	91 sec	Dry; ASTM D495

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