

Rogers Corporation Bisco™ HT-840 Cellular Silicone Foam

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

Material Notes:

Extra firm grade silicone sponge. UL recognized of flame retardance. Applications: High closure-force gaskets, Press-pads where conformable imprinting support is required, such as decal lamination on skis and T-shirts. 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-840-Cellular-Silicone-Foam.php

Physical Properties	Metric	English	Comments
Density	0.449 g/cc	0.0162 lb/in ³	ASTM D3574
Water Absorption	0.20 %	0.20 %	ASTM D471

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	0.483 MPa	70.1 psi	ASTM D412
Elongation at Break	55 %	55 %	ASTM D412
Compressive Yield Strength	0.152 MPa	22.0 psi	at 25% deflection; ASTM D1056
Compression Set	<= 1.0 % @Temperature 70.0 °C	<= 1.0 % @Temperature 158 °F	ASTM D1056
	<= 5.0 % @Temperature 100 °C	<= 5.0 % @Temperature 212 °F	ASTM D1056

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.120 W/m-K	0.833 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)
	V-0	V-0	Listed (may vary with thickness,

Flammability UL 94 Thermal Properties	Metric	English	Comments
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	44 %	44 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Constant	1.58	1.58	
Dielectric Strength	3.70 kV/mm	94.0 kV/in	ASTM D150
Arc Resistance	98 sec	98 sec	Dry; ASTM D495

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