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BISCO® HT-870SH

Medium-Soft Flame Retardant Silicone Foam

General Information

BISCO® HT-870 medium-soft silicone foam is a firmer and denser version of BF-1000. It maintains the low closure force and conformability characteristics of its soft counterparts, BF-2000 and BF-1000, while simultaneously exhibiting enhanced sealing capabilities. Patented chemistry and cell structure provide a long term performance advantage.

Features & benefits applicable to all BISCO® Cellular Materials (Foams):

- Temperature independency
- UV/Ozone resistant
- Rated to most stringent flame standards

Material Properties

Property	Test Method	Typical Value*	Specification**	
PHYSICAL				
Colour	Visual	Black, Red	-	
Thickness, mm (inches)	Internal	1.59 – 12.70 (0.063 – 0.500)	See "Width Tolerance" table	
Density, kg/m³ (lb/ft³)	Internal	240 (15)	215 – 327 (13.4 – 20.4)	
Compression Force Deflection, kPa (psi)	ASTM D1056	26 (3.8)	7 – 48 (1 – 7)	
Compression Set, %	ASTM D1056 100°C (212°F) / 22 hrs / 50%	1.6	<5	
Water Absorption, %	Internal 2" below water surface / 24 hrs/ change in weight	0.5	<10	
Specification values in bold are tested on a batch basis. Further industry specifications tested in tables below.				
FLAMMABILITY				
Falme Resistance	UL 94 (File E83967)	Meets	V-0	
Flame Spread Index (Is)	ASTM E162	Meets	Flaming Mode < 35	
Smoke Density (Ds)	ASTM E662	Meets		
Burn Length	FMVSS 302	Meets	< 100 mm/min	
THERMAL				
Temperature Range , °C (°F)	Internal	-55 to +200 (-67 to +392)	-	
Thermal Conductivity, W/m°K	ASTM C518	0.06	-	
Low Temperature Flex	ASTM D1056 -55°C (-67°F) / 3 min	Pass	-	
Low Temperature Brittleness	ASTM D1056 -55°C (-67°F) / 3 min	Pass	-	

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Viking Extrusions Ltd – Ivy Arch Road, Worthing, West Sussex, BN14 8BX, UK

Company Number: 2634482UK VAT Number: GB587651394 Registered in England & Wales

REV 01 - Last Updated: 24/06/24



ISO 14001 Environmental Management

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Standard Thickness Tolerances

Nominal Thickness	Tolerance
mm (inches)	mm (inches)
1.60	± 0.508
(0.063)	(± 0.020)
2.39	± 0.508
(0.094)	(± 0.020)
3.18	± 0.635
(0.125)	(± 0.025)
4.78	± 0.635
(0.188)	(± 0.025)
6.35	± 0.762
(0.250)	(± 0.030)
9.53	± 1.143
(0.375)	(± 0.045)
12.70	± 1.270
(0.500)	(± 0.050)

Slit Material and Tape (PSA) Width Tolerances

Nominal Thickness	Tolerance
mm (inches)	mm (inches)
> 0 - 76	± 1.60
(>0-3)	(± 0.063)
> 76 – 203	± 2.39
(> 3 – 8)	(± 0.094)
> 203 – 305	± 3.18
(>8-12)	(± 0.0125)
> 305 – 457	± 4.78
(> 12 – 18)	(± 0.188)
> 457 – 660	± 5.56
(> 18 – 26)	(± 0.219)
> 660 – 914	+ 25.4/-0
(> 26 – 36)	(+1 / 0)

Notes:

 $Additional\ industry\ specifications\ are\ available\ as\ well.\ All\ other\ properties\ are\ based\ on\ industry\ standard\ guidelines.$

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^{*}Typical Value- Value is based on historical data. Please note the frequency of testing varies.

^{**}Specification- Applies to physical properties only, which are based on Rogers' internal benchmark and standard BISCO specification values.