

Information

BF2000 Ultra Soft is a highly compressible silicone foam. The combination of low weight and softness makes this flame retardant foam ideal for transportation, industrial and electronics applications where low closure force and dust sealing are critical. BISCO Silicones are available in various thicknesses and manufactured in roll form to allow fabricators to easily convert the material to the proper dimensions.

Features and benefits

- Ultra low softness allows designers to use less force to seal enclosures and still protect their device from the environment.
- High compressibility allows material to conform to variable width gaps, thereby allowing more design flexibility.
- Excellent memory and low stress relaxation reduces maintenance costs associated with gasket failures due to compression set and softening.
- Resistance to ultraviolet light, ozone, extreme temperatures, and flame enables consistent performance in all environments.

Applications

- Vibration isolation in electronic components and transportation vehicles.
- Low closure force gaskets within portable electronics such as laptops and LCD screens within aircraft and rail interiors.
- Fire retardant thermal insulation.

Installation

- Available with a pressure-sensitive adhesive on one or two sides to allow easy application to a variety of surfaces.

Physical

PROPERTY	TEST METHOD	TYPICAL VALUE
Colour		Black
Thickness mm (inches) Tolerance		3.18 – 12.70 (0.125 – 0.500) See below
Standard Width mm (inches)		914 (36)
Density, kg/m ³ (lb./ft ³)	ASTM D 1056	160 (10)
Compression Force Deflection, kPa (psi)	Force measured @ 25% Deflection ASTM D 1056	13.8 (2.5 Max)
Compression Set, Typical	ASTM D 1056 Test D @ 70°C (158°F), 22hrs ASTM D 1056 Test D @ 100°C (212°F), 22hrs	1% 5%
Tensile Strength, min. kPa (psi)	ASTM D 412	172 (25)
Elongation, %	ASTM D 412	80

Flammability & Outgassing

PROPERTY	TEST METHOD	TYPICAL VALUE
Flame Resistance	UL94	Listed V-0 and HF-1
Flame Spread Index (Ls)	ASTM E 162	< 25
Smoke Density (Ds)	ASTM E 662 Tested @ 4.0 minutes Tested @ 1.5 minutes	< 50 < 20
Toxic Gas Emissions Rating	SMP-800C	Pass
Recommended Use Temperature, °C (°F)	Internal	-55° to 200° (-67° to 392°)

STANDARD THICKNESS			TOLERANCE (INCHES)	
MM	INCHES		MM	INCHES
3.18	1/8	0.125	± 0.635	± 0.025
4.76	3/16	0.188	± 0.762	± 0.030
6.35	1/4	0.250	± 1.016	± 0.040
9.53	3/8	0.375	± 1.524	± 0.060
12.70	1/2	0.500	± 1.524	± 0.060

The information contained in this Data Sheet is intended to assist you in designing with BISCO Foams. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose or that the results shown on the Data Sheet will be achieved by a user for a particular purpose. The user should determine the suitability of BISCO Foams for each application.

Notes

- All metric conversions are approximate.
- Additional technical information is available.
- Typical values should not be used for specification limits.

† +44 (0) 121 773 8494
 f +44 (0) 121 772 3584
 w www.cb frost-rubber.com
 e info@cb frost-rubber.com
 t twitter.com/cbfrost

