

Information

BISCO® 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.
- Shock absorbing cushions and gaskets.
- Fire retardent 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 inches (mm) Tolerance		0.125 - 0.500 (3.18 - 12.70) see below
Standard width inches (mm)		36 (914)
Density, lb.ft ³ (Kg/m ³)	ASTM D 1056	10.0 (160)
Compression force deflection psi (kPa)	Force measured @ 25% deflection ASTM D 1056	1.5 (10.3)
Compression set typical	ASTM D 1056 Test D @ 158°F (70°C), 22hrs ASTM D 1056 Test D @ 212°F (100°C), 22hrs	1% 5%
Tensile strength min, psi (kPa)	ASTM D 412	25 (172)
Elongation, %min	ASTM D 412	80

* Red colour not available as standard for 1/32" (0.80mm)

Flammability & Outgassing

PROPERTY	TEST METHOD	TYPICAL VALUE
Flame resistance	UL 94	Listed V-0 and HF-1
Flame spread index (I _s)	ASTM E 162	< 25
Smoke Density (D _s)	ASTM E 662 Tested @ 4.0 minutes Tested @ 1.5 minutes	< 50 < 20
Toxic gas emissions rating	SMP-800C	Pass

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

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Notes

- All metric conversions are approximate.
- Additional technical information is available.
- BF-2000 is a recently commercialised standard product that was previously recognised and sold under the BISCO EP-2022 product designation. All product features, properties, and formulations have remained intact in commercialising this Engineered Product (EP) to BISCO Foam (BF) series.

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