

TECHNICAL DATASHEET: BF-1000 - Closed Cell Extra Soft Cellular Silicone Foam

PRODUCT DESCRIPTION

Highly compressible, soft silicone foam. The combination of low weight and softness makes it an ideal solution where low closure force and sealing are critical.

TYPICAL APPLICATIONS

- Environmental seals to protect against penetration of dust, moisture, air, or light within outdoor enclosures such as lighting fixtures, HVAC units, and electronic cabinets
- Vibration isolation in electronic components and transportation vehicles
- Fire retardant thermal insulation

PRODUCT FEATURES & BENEFITS

- Patented chemistry and cell structure provide long term performance advantage
- Temperature independency
- UV/Ozone resistant
- Rated to most stringent flame standards
- Meets FDA CFR 177.2600

TECHNICAL DATA	VALUE	TEST METHOD / STANDARD
THICKNESS	1/16", 3/32", 1/8", 3/16", 1/4", 3/8", 1/2", 5/8", 3/4", 1"	
COLOR	Black, Gray, White	
MATERIAL/SUBSTRATE	Silicone Foam	
COMPRESSION FORCE DEFLECTION @ 25%	2.4 psi	ASTM D1056
COMPRESSION SET, 22 HOURS @ 212°F @ 50%	1.70%	ASTM D1056
DENSITY	12lb/ft ²	
THERMAL CONDUCTIVITY	0.048 W/m ² K	ASTM D518
ELONGATION (MINIMUM)	60%	ASTM D412
FDA COMPLIANT 21 CFR 177.2600	Pass	
OZONE RESISTANCE	Yes	
UV RESISTANCE	Yes	
FLAME RETARDANT	Yes	
FLAME SPREAD INDEX (LS)	< 35	ASTM E162
FMVSS-302	Pass	
SMOKE DENSITY (Ds) @ 1.5 MINUTES	< 100	ASTM E662
SMOKE DENSITY (Ds) @ 4 MINUTES	< 200	ASTM E662
UL 94 HF-1	Pass	
UL 94 V0	Pass	
LOW TEMPERATURE FLEXIBILITY	-67°F	ASTM D1056
RECOMMENDED USE TEMPERATURE	-67°F to 392°F	
TENSILE STRENGTH	140 psi	ASTM D412
FDA CFR 177.2600	Pass	

Specifications are believed to be accurate at the time of publication and are subject to change without notice. It is the responsibility of the end-user to test and determine suitability of this material for a particular application. H-O will provide samples for this purpose at no charge. **REV. 0**