

BISCO® SF-069

BISCO® SF-069 is a silicone foam solution for gasketing and sealing design of Hybrid-Electric (HEV) and Electric Vehicle (EV) battery enclosures. BISCO SF-069 silicone material offers the sealing capabilities of traditional sponge rubber, but is lighter in weight and higher in performance.

PROPERTY	TEST METHOD	TYPICAL VALUE*	SPECIFICATION**
PHYSICAL			
Color	Visual	Gray, Brown	---
Thickness, mm (inches)	Internal	3.18, 4.78, 6.35 (0.125, 0.188, 0.250)	---
Density, kg/m ³ (lb./ft ³)	ASTM D1056	384 (24)	---
Compression Force Deflection, kPa (psi)	ASTM D1056 @ 25% deflection	69 (10)	55 - 103 (8 - 15)
Tensile, kPa (psi), min	ASTM D412	358 (52)	241 (35)
Elongation, % min	ASTM D412	73	40
Compression Set, %	ASTM D1056 100°C (212°F) / 22 hrs / 50%	5.5	< 15
Water Absorption, %	Internal 2" below water surface / 24 hrs / change in weight	0.7	< 5
Flammability	UL94	Pass	UL94 V-0
F37 Sealing	ASTM F37 @30%	Pass	---
Roll Width, mm (inches)	---	914 Standard / 1219 Jumbo (36 Standard / 48 Jumbo)	---
Temperature Range, °C (°F)	Internal	-55 to +200 (-67 to +392)	---

Standard Thickness Tolerances

NOMINAL THICKNESS	TOLERANCE
mm (inches)	mm (inches)
3.18 (0.125)	± 0.635 (± 0.025)
4.78 (0.188)	± 0.635 (± 0.025)
6.35 (0.250)	± 0.762 (± 0.030)

Notes:

- All conversions are approximate
- *Typical Value- Value is based on historical data and should not be used for specification limits.
- Additional technical information is available.
- **Specification- Applies to physical properties only, which are based on Rogers' internal benchmark and standard BISCO specification values.