

## BISCO® SF-069

BISCO<sup>®</sup> 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 <sup>3</sup> (lb./ft <sup>3</sup> )	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)	Notes:
3.18± 0.635(0.125)(± 0.025)	<ul> <li>All conversions are approximate</li> <li>*Typical Value- Value is based on historical data and should not be use</li> </ul>	
		4.78
(0.188)	(± 0.025)	<ul> <li>Additional technical information is available.</li> <li>**Specification- Applies to physical properties only, which are based or</li> </ul>
6.35	± 0.762	Rogers' internal benchmark and standard BISCO specification values.
(0.250)	(± 0.030)	



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