

BISCO[®] RS-820 Firm

BISCO® RS-820 Firm silicone sponge embodies the transition in the BISCO Silicone Cellular series from soft and conformable to firm and durable. It simultaneously retains the lightness of a foam while exhibiting the enhanced sealing capabilities of a traditional sponge rubber. Patented chemistry and cell structure provide long term performance advantage..

Features & Benefits, applicable to all BISCO® Cellular Materials

- Temperature independency
- UV/Ozone resistance
- Good compression set resistance

PROPERTY	TEST METHOD	TYPICAL VALUE*	SPECIFICATION**
PHYSICAL			
Color	Visual	Gray	
Thickness, mm (inches)	Internal	3.18 - 4.78 (0.125 - 0.188)	See Standard Thickness Tolerances Table
Density, kg/m³ (lb./ft³)	Internal	481 (30)	320 - 513 (20 - 32)
Compression Force Deflection, kPa (psi)	ASTM D1056	155 (22.5)	83 - 138 (12 - 20)
Compression Set, %	ASTM D1056 100°C (212°F) / 22 hrs / 50%	4.0	< 10
Water Absorption, %	ASTM D1056	1.0	< 5
THERMAL			
Temperature Range °C (°F)	Internal	- 55 to +200 (-67 to +392)	
Low Temperature Brittleness	ASTM D746		Pass
	-55°C (-67°F) / 3 min		
FLAMMABILITY			
Flame Resistance	UL94	Meets at 3rd party lab	V-0 ; HF-1

*Typical Value - Value is based on historical data, please note the frequency of testing varies.

Specification- Applies to physical properties only, which are based on Rogers' internal benchmark and standard BISCO specification values. Specification values in **bold are tested on a batch basis. All other properties, flammability, thermal, etc, are based on industry standard guidelines.

All metric conversions are approximate. Reference US customary units for official values and tolerances.



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Standard Thickness Tolerances

NOMINAL THICKNESS	TOLERANCE
mm (inches)	mm (inches)
3.18	+/- 0.635
(0.125)	(+/- 0.025)
4.78	+/- 0.635
(0.188)	(+/- 0.025)



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