



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	1.6-12.7 (0.063-0.500)	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	< 5
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	QMFZ2.E83967	V0 ; HB

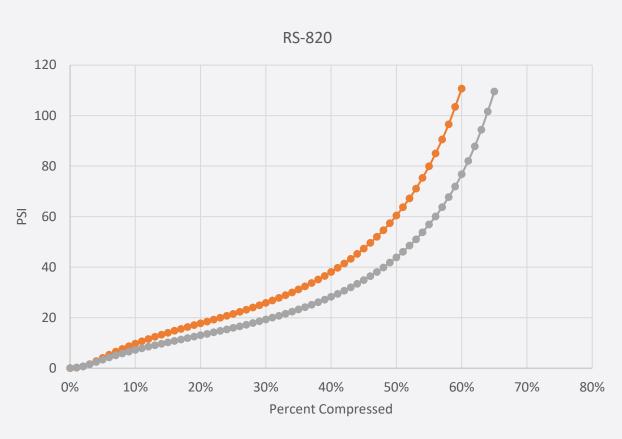
^{*}Typical Value – Value is based on historical data, please note the frequency of testing varies.

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



^{**}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.





RS-820 0.125 —RS-820 0.188

Standard Thickness Tolerances

NOMINAL THICKNESS	TOLERANCE	
mm (inches)	mm (inches)	
1.60	+/- 0.508	
(0.063)	(+/- 0.020)	
2.39	+/- 0.508	
(0.094)	(+/- 0.020)	
3.18	+/- 0.635	
(0.125)	(+/- 0.025)	
4.78	+/- 0.635	
(0.188)	(+/- 0.025)	
6.35	+/- 0.762	
(0.250)	(+/- 0.030)	
9.53	+/- 1.143	
(0.375)	(+/- 0.045)	
12.7	+/- 1.270	
(0.500)	(+/- 0.050)	

