

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	1.59-15.88 (0.063-0.625)	See Standard Thickness Tolerances Table
Density, kg/m ³ (lb./ft ³)	Internal	404 (25)	320 - 513 (20 - 32)
Compression Force Deflection, kPa (psi)	ASTM D1056	86 (12.5)	83 - 138 (12 - 20)
Compression Set, %	ASTM D1056 100°C (212°F) / 22 hrs / 50%	2.1	< 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 -55°C (-67°F) / 3 min	---	Pass
FLAMMABILITY			
Flame Resistance	UL94	QMFZ2.E83967	V0 ; HB

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

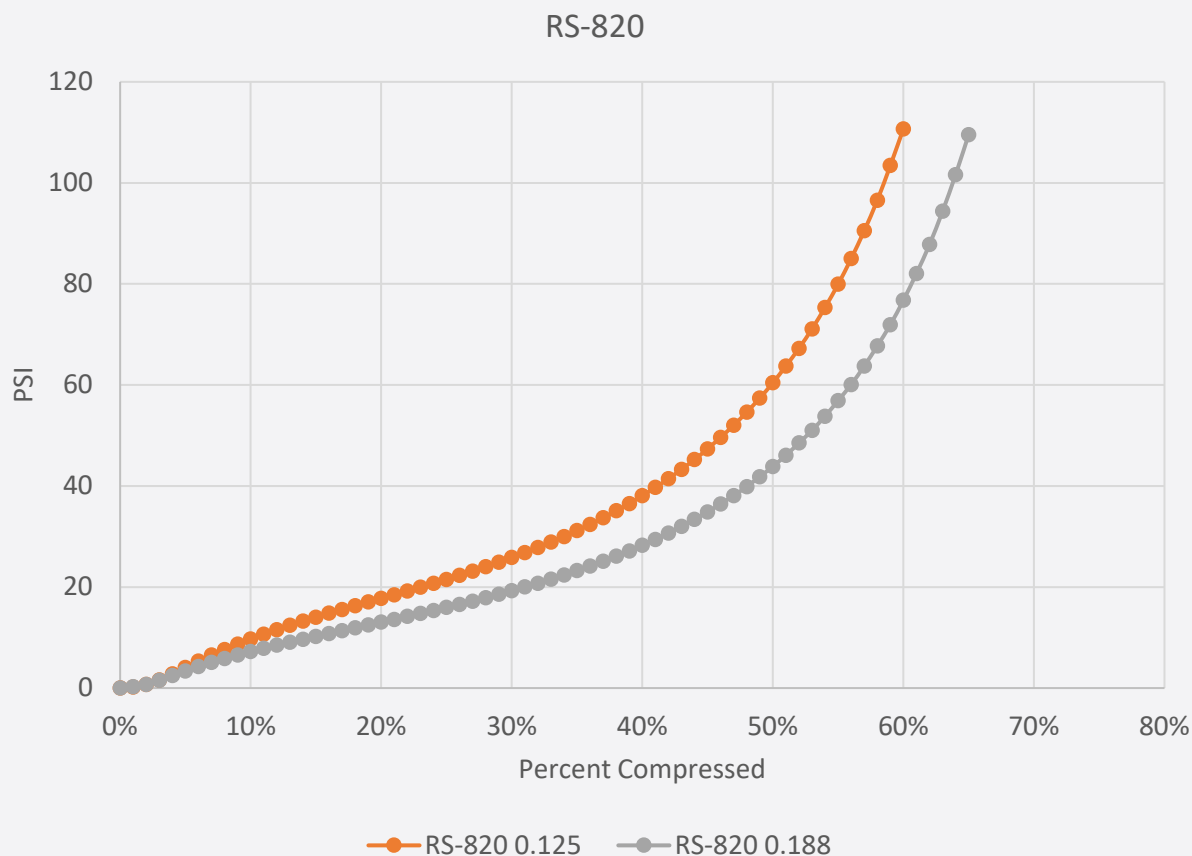
Specification- Applies to physical properties only, which are based on Rogers' internal benchmark and standard BISCO specification values. Specification values in **bold are tested on a batch basis (applicable to thicknesses up to and including 12.7 mm (0.500 inches). Data provided upon request for other thicknesses). 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.

For more information and to request a sample, please contact our team of experts at solutions@rogerscorp.com



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Standard Thickness Tolerances

NOMINAL THICKNESS	TOLERANCE
mm (inches)	mm (inches)
1.59 (0.063)	+/- 0.508 (+/- 0.020)
2.39 (0.094)	+/- 0.508 (+/- 0.020)
3.18 (0.125)	+/- 0.635 (+/- 0.025)
4.78 (0.188)	+/- 0.635 (+/- 0.025)
6.35 (0.250)	+/- 0.762 (+/- 0.030)
9.53 (0.375)	+/- 1.143 (+/- 0.045)
12.70 (0.500)	+/- 1.270 (+/- 0.050)
15.88 (0.625)	+/- 1.750 (+/- 0.069)