



# BISCO® RS-840 Very Firm

BISCO® RS-840 Very 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**
<b>PHYSICAL</b>			
Color	Visual	<b>Gray</b>	---
Thickness, mm (inches)	Internal	<b>1.6-12.7 (0.063-0.500)</b>	See Standard Thickness Tolerances Table
Density, kg/m <sup>3</sup> (lb./ft <sup>3</sup> )	Internal	481 (30)	<b>352 - 609 (22 - 38)</b>
Compression Force Deflection, kPa (psi)	ASTM D1056	155 (22.5)	<b>110 - 193 (16 - 28)</b>
Compression Set, %	ASTM D1056 100°C (212°F) / 22 hrs / 50%	4.0	< 5
Water Absorption, %	ASTM D1056	1.0	< 5
<b>THERMAL</b>			
Temperature Range °C (°F)	Internal	- 55 to +200 (-67 to +392)	---
Low Temperature Brittleness	ASTM D746 -55°C (-67°F) / 3 min	---	Pass
<b>FLAMMABILITY</b>			
Flame Resistance	UL94	QMFZ2.E83967	V0 ; HB

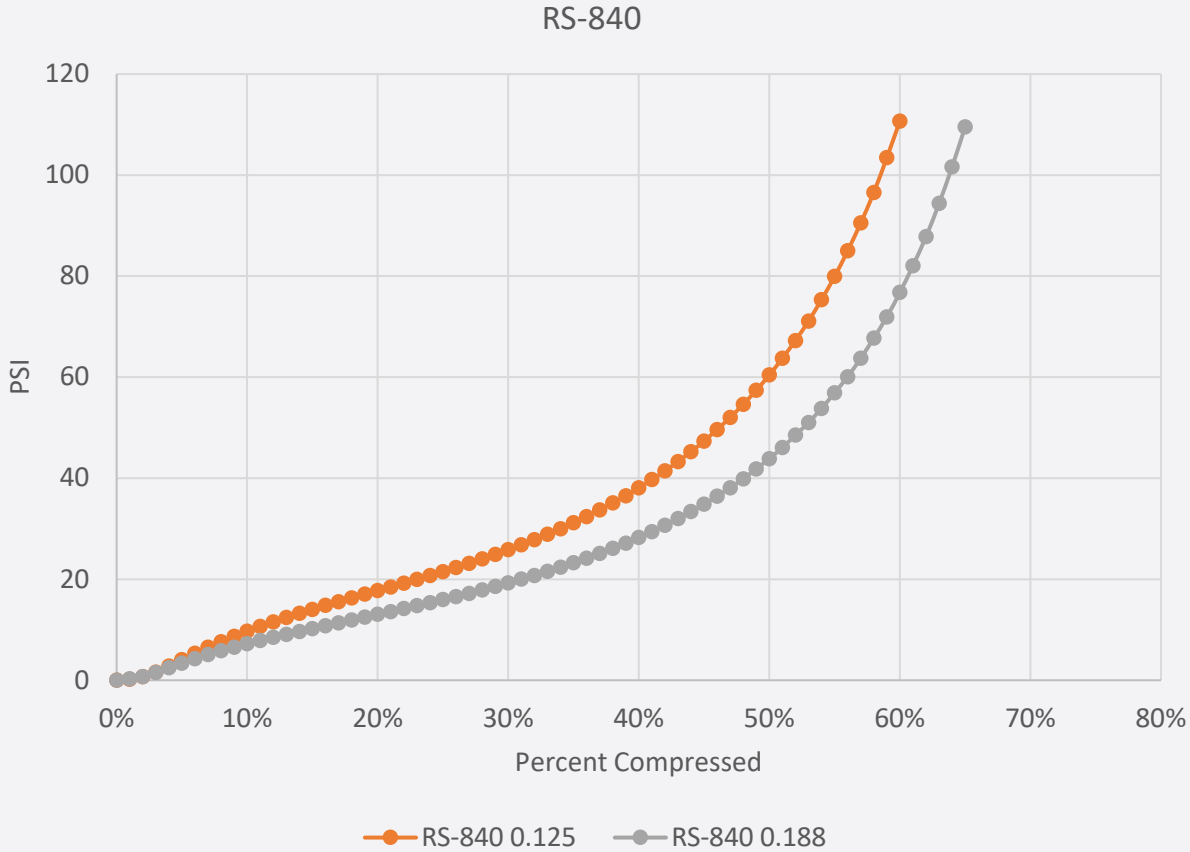
\*Typical Value – Value is based on historical data, please note the frequency of testing varies.

\*\*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. 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)
1.60 (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)
12.7 (0.500)	+/- 1.270 (+/- 0.050)