

# BISCO® RS-870 Soft

BISCO® RS-870 Soft 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.

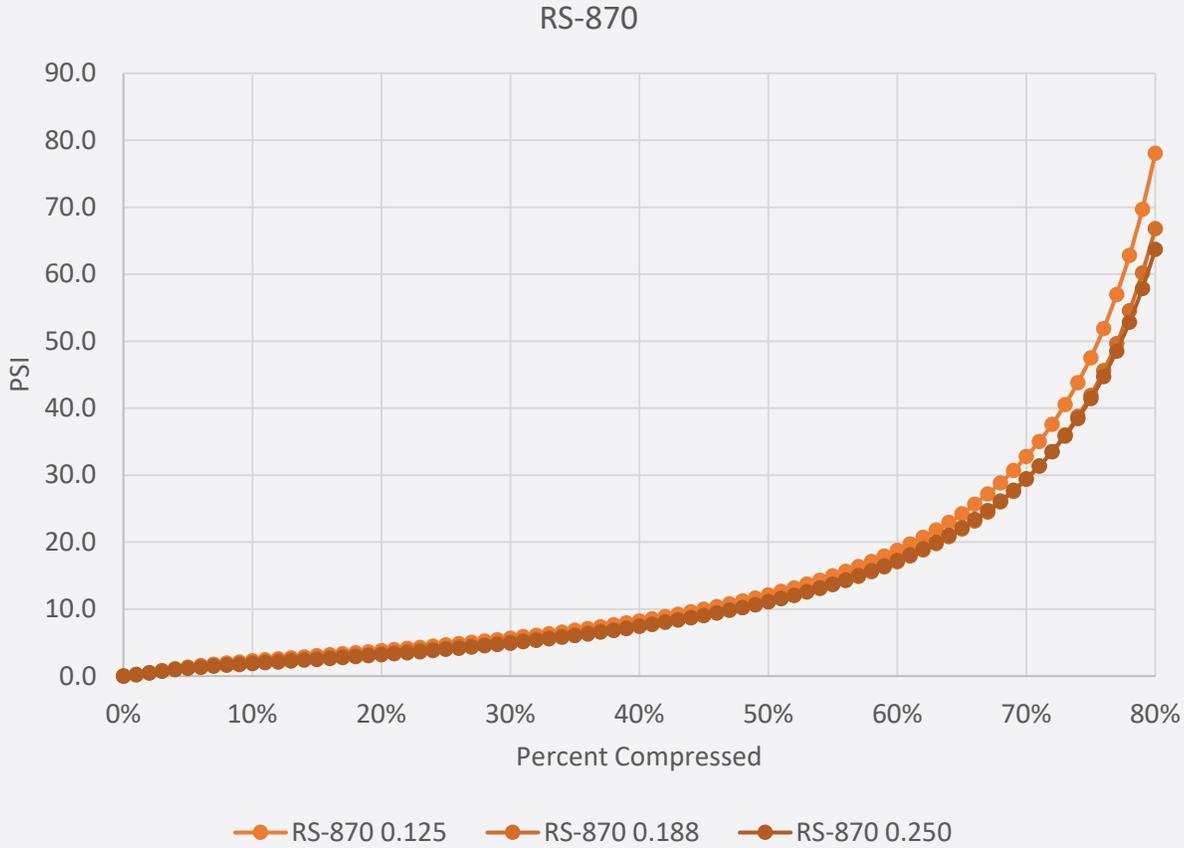
## Features & Benefits, applicable to all BISCO® Cellular Materials

- 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>3.18 - 6.4</b> <b>(0.125 - 0.250)</b>	See Standard Thickness Tolerances Table
Density, kg/m <sup>3</sup> (lb./ft <sup>3</sup> )	Internal	256 (16)	<b>192- 352</b> <b>(12 - 22)</b>
Compression Force Deflection, kPa (psi)	ASTM D1056	34 (5)	<b>13.8 - 48</b> <b>(2- 7)</b>
Compression Set, %	ASTM D1056 100°C (212°F) / 22 hrs / 50%	3.5	< 10
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	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.



#### Standard Thickness Tolerances

NOMINAL THICKNESS		TOLERANCE	
mm (inches)		mm (inches)	
3.18	(0.125)	+/- 0.635	(+/- 0.025)
4.78	(0.188)	+/- 0.635	(+/- 0.025)
6.35	(0.250)	+/- 0.762	(+/- 0.030)

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