

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** |
|---|--|-------------------------------|--|
| 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 | 495 (31) | 352 - 609 (22 - 38) |
| Compression Force Deflection, kPa (psi) | ASTM D1056 | 139 (20) | 110 - 193 (16 - 28) |
| Compression Set, % | ASTM D1056 100°C (212°F) / 22 hrs / 50% | 2.5 | < 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.

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.

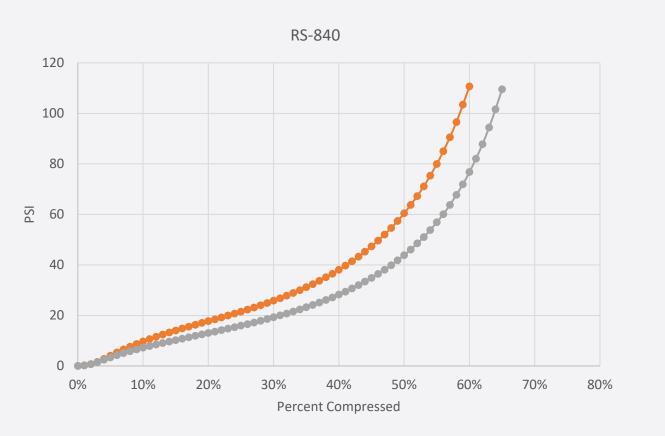
All metric conversions are approximate. Reference US customary units for official values and tolerances.

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



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| 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) | |

Standard Thickness Tolerances



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