

# BISCO® RS-700 SERIES

## CONTINUOUS ROLL CLOSED-CELL SILICONE SPONGE - PRELIMINARY DATA SHEET

| PROPERTY  | TEST METHOD   | RS-720                                 | RS-750                      | RS-770                      |
|---|---|--|-----------------------------|-----------------------------|
| <b>PHYSICAL</b>   |   | <b>TYPICAL PROPERTIES <sup>1</sup></b> |                             |                             |
| DENSITY, kg / m <sup>3</sup>                                | ASTM D 3574   | 280                                    | 384                         | 465                         |
| (lb. / ft <sup>3</sup> )                                    |   | (17.5)                                 | (24)                        | (29)                        |
| THICKNESS mm (in)   |   | 2.4<br>(0.094")                        | 3.2-12.7<br>(0.125"-0.500") | 1.6-12.7<br>(0.063"-0.500") |
| COMPRESSION FORCE DEFLECTION SPECIFICATION RANGE, kPa (psi) | ASTM D 1056   | 34.5-82.7<br>(5-12)                    | 34.5-62<br>(5-9)            | 41.4-96.5<br>(6-14)         |
| COMPRESSION SET   | ASTM D 1056,<br>22 hours @ 100°C<br>50% compressed,<br>24 hours recovery  | <15%                                   | <15%                        | <15%                        |
| TENSILE STRENGTH, Mpa (psi)                                 | ASTM D 412  | 0.52 (75)                              | 0.62 (90)                   | 0.76 (110)                  |
| ELONGATION TO FAILURE, %                                    | ASTM D 412  | 175                                    | 135                         | 130                         |
| WATER ABSORPTION, %   | ASTM D 1056   | <3                                     | <3                          | <3                          |
| WATER SEALING AT 30% COMPRESSION                            | Water Pressure: 1.5 psi<br>(10.3 kPa) / Gasket<br>Width: 0.250 in (6.35 mm),<br>Gasket Thickness: 0.125 in (3.175 mm) | No Leakage                             | No Leakage                  | No Leakage                  |
| STANDARD COLORS   |   | Fog Gray                               | Steel Gray                  | Charcoal Gray               |
| <b>TEMPERATURE RESISTANCE</b>                               |   |  |                             |                             |
| RECOMMENDED CONSTANT USE, Max °C (Max °F)                   |   | 205°C (401°F)                          | 205°C (401°F)               | 205°C (401°F)               |
| RECOMMENDED INTERMITTENT USE, Max °C (Max °F)               |   | 260°C (500°F)                          | 260°C (500°F)               | 260°C (500°F)               |
| LOW TEMPERATURE BRITTLINESS, °C (°F)                        | ASTM D 746  | -55°C (-67°F)                          | -55°C (-67°F)               | -55°C (-67°F)               |
| THERMAL CONDUCTIVITY, w/m K (BTU in hr/ft <sup>2</sup> /F)  | ASTM C 518  | 0.07 (0.48)                            | 0.08 (0.57)                 | 0.08 (0.57)                 |
| <b>FLAMMABILITY</b>   |   |  |                             |                             |
| FLAME RESISTANCE, (Pass >= mm (inch))                       | FMVSS 302   | 1.6 (0.063)                            | 0.8 (0.031)                 | 0.8 (0.031)                 |
| <b>CERTIFICATIONS</b>                                       |   |  |                             |                             |
| TEST STANDARD   |   | ASTM D 1056 2D2 *                      | AMS 3195                    | AMS 3196                    |
| UL CERTIFICATION  | Gasket & Seals JMLU2  | UL50, UL50E, UL508 & UL157             |                             |                             |

Note: Typical values are a representation of an average value of the property for a given population of the product. For specification values, contact Rogers Corporation.

<sup>1</sup> Typical properties based on 0.250" samples.

\* RS720 .063" and .094" do not fall within the compression force deflection parameters defined under ASTM D01056 2D2.

| THICKNESS MM (IN)          | RS-720  | RS-750  | RS-770  |
|----------------------------|---------|---------|---------|
| <b>TOLERANCE</b>           |         |         |         |
| 1.6 (0.063)                | x       | ±0.020" | x       |
| 2.4 (0.094) - 6.35 (0.250) | ±0.020" | ±0.020" | ±0.020" |
| 9.53 (0.375)               | ±0.045" | ±0.045" | ±0.045" |
| 12.70 (0.500)              | ±0.059" | ±0.059" | ±0.059" |

### FEATURES

- Closed Cell
- Extreme Temperature Resiliency
- Tear and Abrasion Resistant
- Continuous Roll

### BENEFITS

- Seals out dust and moisture
- Performs in temperatures from -67°F up to 401°F
- Performs at its peak even while being stretched, slammed or scratched.
- Increased machine utilization for money and time savings

- All metric conversions are approximate.
- All BISCO Test Procedures are available for review. Please contact your Rogers Sales Engineer.

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