

苏州展格新材料有限公司

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## BISCO® RS-770

### Continuous Roll Closed-Cell Silicone Sponge – Data Sheet

| PROPERTY                                                       | TEST METHOD                                                                                                                     | TYPICAL PROPERTIES            |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Density, kg / m <sup>3</sup> (lb. / ft <sup>3</sup> )          | ASTM D 3574                                                                                                                     | 465 (29)                      |
| Thickness, mm (in)                                             |                                                                                                                                 | 2.4 – 12.7<br>(0.094 - 0.500) |
| Compression Force Deflection<br>Specification Range, kPa (psi) | ASTM D 1056                                                                                                                     | 82 - 138<br>(12 - 20)         |
| Compression Set, %                                             | ASTM D 1056<br>22 hours @ 100°C, 50% compressed,<br>24 hours recovery                                                           | <15                           |
| Tensile Strength, MPa (psi)                                    | ASTM D 412                                                                                                                      | 0.76 (110)                    |
| Elongation to Failure, %                                       | ASTM D 412                                                                                                                      | 130                           |
| Water Absorption, %                                            | ASTM D 1056                                                                                                                     | <3                            |
| Water Sealing Properties                                       | Water pressure: 10.3 kPa (1.5 psi)<br>Gasket width: 6.34 mm (0.250")<br>Compression: 30%<br>Gasket thickness: 3.175 mm (0.125") | No Leakage                    |
| Standard Color                                                 |                                                                                                                                 | Charcoal Gray                 |
| <b>TEMPERATURE RESISTANCE</b>                                  |                                                                                                                                 |                               |
| Recommended Constant Use,<br>Max °C (Max °F)                   |                                                                                                                                 | 205°C (401°F)                 |
| Recommended Intermittent Use,<br>Max °C (Max °F)               |                                                                                                                                 | 260°C (500°F)                 |
| Low Temperature Brittleness, °C (°F)                           | ASTM D 746                                                                                                                      | -55°C (-67°F)                 |
| Thermal Conductivity,<br>w/m K (BTU in hr/ft <sup>2</sup> /F)  | ASTM C 518                                                                                                                      | 0.08 (0.57)                   |
| <b>FLAMMABILITY</b>                                            |                                                                                                                                 |                               |
| Flame Resistance,<br>pass >= mm (inch)                         | FMVSS 302                                                                                                                       | 2.4 (0.094)                   |
| <b>CERTIFICATIONS</b>                                          |                                                                                                                                 |                               |
| Test Standard                                                  |                                                                                                                                 | AMS 3196                      |
| UL Certification                                               | Gaskets & Seals JMLU2                                                                                                           | UL50, UL50E, UL508 & UL157    |
| <b>TOLERANCE, mm (in)</b>                                      |                                                                                                                                 |                               |
| 2.4-6.35 (0.094-0.250)                                         |                                                                                                                                 | ±0.51 (±0.020)                |
| 9.53 (0.375)                                                   |                                                                                                                                 | ±1.14 (±0.045)                |
| 12.70 (0.500)                                                  |                                                                                                                                 | ±1.49 (±0.059)                |

<sup>1</sup>Typical values are a representation of an average property value of a given population of the product.

Typical properties are based on 6.35mm (0.250") sample.

For specification values, please contact Rogers Corporation.

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