

BISCO® Silicones

BISCO® RS-770

Continuous Roll Closed-Cell Silicone Sponge – Data Sheet

PROPERTY	TEST METHOD	TYPICAL PROPERTIES
Density, kg / m ³ (lb. / ft ³)	ASTM D 3574	465 (29)
Thickness, mm (in)		2.4 – 12.7 (0.094 - 0.500)
Compression Force Deflection Specification Range, kPa (psi)	ASTM D 1056	82 - 138 (12 - 20)
Compression Set, %	ASTM D 1056 22 hours @ 100°C, 50% compressed, 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) Gasket width: 6.34 mm (0.250") Compression: 30% Gasket thickness: 3.175 mm (0.125")	No Leakage
Standard Color		Charcoal Gray
TEMPERATURE RESISTANCE		
Recommended Constant Use, Max °C (Max °F)		205°C (401°F)
Recommended Intermittent Use, Max °C (Max °F)		260°C (500°F)
Low Temperature Brittleness, °C (°F)	ASTM D 746	-55°C (-67°F)
Thermal Conductivity, w/m K (BTU in hr/ft ² /F)	ASTM C 518	0.08 (0.57)
FLAMMABILITY		
Flame Resistance, pass >= mm (inch)	FMVSS 302	2.4 (0.094)
CERTIFICATIONS		
Test Standard		AMS 3196
UL Certification	Gaskets & Seals JMLU2	UL50, UL50E, UL508 & UL157
TOLERANCE, mm (in)		
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)

¹Typical 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.

Rogers Corporation Elastomeric Material Solutions US 800.935.2940 | Europe +32.9.235.36.11 | Asia +86.512.6258.2700

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