

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

The information contained in this Data sheet is intended to assist you in designing with Rogers' BISCO Silicone foam materials. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose or that the results shown on the Data Sheet will be achieved by a user for a particular purpose. The user should determine the suitability of Rogers' BISCO Silicone foam materials for each application. The Rogers logo, Helping Power, protect, connect our world and BISCO are trademarks of Rogers Corporation or one of its subsidiaries. ©2016 Rogers Corporation, All rights reserved. Printed in U.S.A. 0216-PDF. Publication #180-312