

# 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 (0.094")	3.2-12.7 (0.125"-0.500")	1.6-12.7 (0.063"-0.500")
COMPRESSION FORCE DEFLECTION SPECIFICATION RANGE, kPa (psi)	ASTM D 1056	34.5-82.7 (5-12)	34.5-62 (5-9)	41.4-96.5 (6-14)
COMPRESSION SET	ASTM D 1056, 22 hours @ 100°C 50% compressed, 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 (10.3 kPa) / Gasket Width: 0.250 in (6.35 mm), 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)	±0.031"	±0.031"	±0.031"
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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