ROGERS CORPORATION

BISCO® Silicones

Typical Product Properties

BISCO® HT-6220 Liquid Silicone Rubber Sheeting (20 Durometer)

PHYSICAL PROPERTY		TYPICAL VALUE	TEST METHOD
Durometer, Shore "A" (pts)		20	ASTM D 2240
Tensile Strength, psi (MPa)		800 (5.5)	ASTM D 412
Elongation, %		650	ASTM D 412
Tear Strength, ppi (kN/m)		55 (9.6)	ASTM D 624
Compression Set, % 70 hr @ 302°F (150 °C)		25-30	ASTM D 395 (B)
Effects of Dry Heat Aging, 70 hr. @ 437 °F (225 °C)	Change in Hardness, Shore "A"	+/- 5	ASTM D 573
	Change in Tensile Strength, %	-15	ASTM D 573
	Change in Elongation, %	-40	ASTM D 573
Effects of Oil Immersion ASTM #1 Oil, 70 hr. @ 302°F (150 °C)	Change in Hardness, Shore "A"	+/- 5	ASTM D 471
	Change in Tensile Strength, %	-35	ASTM D 471
	Change in Elongation, %	-40	ASTM D 471
	Change in Volume, %	+10	ASTM D 471
Electrical and Thermal Properties	Dielectric Constant	3.0	ASTM D 150
	Dielectric Strength, Volts/mil	400	ASTM D 149
	Volume Resistivity, Ohm-cm	10^{14}	ASTM D 257
	Thermal Conductivity, BTU in/hr*ft²* °F (W/m K)	1.5 (0.21)	ASTM C 518
Environmental Resistance	Volume Change from Water Immersion %, 70 hr. @ 212 °F (100 °C)	+5	ASTM D 471
	Low Temperature Embrittlement, -80°F (-62°C)	Pass/No Cracks	ASTM D 2137
	Intermittent Upper Temperature Limit, °F (°C)	500 (260)	Rogers Internal
	Recommended Temperature Use, °F (°C)	-80-425 (-62-218)	SAE J-2236
Dimensions	Available Thickness Range, Inches (mm)	0.010 to 125 (0.3 to 3.2)	N/A
	Standard Width, Inches (mm)	36 (914)	N/A
	Standard Color	Black	N/A

The information contained in this data sheet is intended to assist you in designing with Rogers BISCO Silicones. 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 Silicones for each application.

The world runs better with Rogers.

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