

BISCO® Silicones

Typical Product Properties

BISCO® HT-6210 Liquid Silicone Rubber Sheetting (10 Durometer)

PHYSICAL PROPERTY		TYPICAL VALUE	TEST METHOD
Durometer, Shore "A" (pts)		10	ASTM D 2240
Tensile Strength, psi (MPa)		250 (1.7)	ASTM D 412
Elongation, %		500	ASTM D 412
Tear Strength, pli (kN/m)		25 (4.4)	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*ft ² * °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 to 425 (-62 to 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	Gray	N/A

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