





## BISCO® Silicones – General Purpose Solid Silicones Typical Values

		Test Method	HT-1240	HT-1250	HT-1260	HT-1270	HT-1500
sical	Durometer, Shore "A" (pts)	ASTM D-2240	40 ± 5	50 ± 5	60 ± 5	70 ± 5	75 ± 10
	Tensile Strength, psi (MPa)	ASTM D-412	825 (5.7)	950 (6.6)	1050 (7.2)	1150 (7.9)	300 (5.3) A
oical Physi Properties	Elongation, %	ASTM D-412	350	300	250	200	N/A
Тук	Tear Strength, ppi (kN/m)	ASTM D-624	50 (8.8)	70 (12.2)	75 (13.1)	90 (15.8)	N/A
	Compression Set, % 70 hr @ 302°F (150°C)	ASTM D-395 (B)	20	20	20	25	25
Effects of Dry Heat Aging 70 hr @ 437°F (225°C)	Change in Hardness, Shore "A" (pts)	ASTM D-573	±5	±5	±5	±5	-5 to + 10
ects c aat A nr @ nr @ (225°	Change in Tensile Strength, %	ASTM D-573	-15	-15	-15	-15	-20 <b>A</b>
Effe He 70 h	Change in Elongation, %	ASTM D-573	-35	-35	-35	-35	N/A
sion	Change in Hardness, Shore "A" (pts)	ASTM D-471	-10 to +5				
ts of Oil Immer ASTM #1 Oil 70 hr @ 302'F (150°C)	Change in Tensile Strength, %	ASTM D-471	-10	-10	-10	-10	-20 <b>A</b>
ts of O ASTN 70 hr (	Change in Elongation, %	ASTM D-471	-15	-15	-15	-15	N/A
Effec	Change in Volume, %	ASTM D-471	+5	+5	+5	+5	+10
nal	Dielectric Constant	ASTM D-150	3.0	3.0	3.1	3.2	3.2
Electrical & Thermal Properties	Dielectric Strength, Volts/mil	ASTM D-149	400	400	400	400	400
ical {	Volume Resistivity, Ohm – cm	ASTM D-257	1014	1014	1014	1014	1014
Electr F	Thermal Conductivity, BTU in/hr/ft²/°F (W/m °K)	ASTM D-518	1.7 (0.25)	1.8 (0.26)	1.9 (0.27)	2.1 (0.30)	2.0 (0.29)
ental	Volume Change from Water Immersion %, 70 hr. @ 212°F (100°C)	ASTM D-471	+10	+5	+5	+5	+5
Environmental Resistance	Low Temperature Embrittlement, °F (°C)	ASTM D-2137	-80 (-62)	-80 (-62)	-80 (-62)	-80 (-62)	-80 (-62)
En	Recommended Use Temperature, °F (°C)		-80 to 425 (-62 to 218)				
ions	Available Thickness Range, inches (mm)		0.020 to 0.125 (0.5 to 3.2)	0.031 to 0.125 (0.8 to 3.2)			
Dimensions	Standard Widths, inches (mm)		36 (914)	36 (914)	36 (914)	36 (914)	36 (914)
Diu	Standard Colors		Red <b>B</b>	Red <b>B</b>	Red <b>B</b>	Red <b>B</b>	Red
Specifications Available	A-A-59588		40	50	60	70	N/A
	AMS Specification		N/A	3302	3303	3304	3320 <b>C</b>

Notes: All metric conversions are approximate. Typical values are a representation of an average value for the population. For specification values contact Rogers Corporation. Additional technical information may be available. All BISCO test procedures are available for view. Please contact your Rogers Sales Engineer.

- A Data relevant to the breaking strength of the fiberglass only, and measured in ppi (MPa-cm) using ASTM D-751 cut strip method
- B White, black and gray formulations available
- C AMS 3220 available thicknesses are 0.063" (1.59mm), 0.094" (2.38mm) and 0.125" (3.2mm)

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Nominal Thickness inch (mm)	Tolerance		
0.020" (0.51mm)	±0.004" (±0.10mm)		
0.031" (0.79mm)	±0.005" (±0.13mm)		
0.039" (1.0mm)	±0.005" (±0.13mm)		
0.0625" (1.59mm)	±0.0065" (±0.17mm)		
0.079" (2.0mm)	±0.008" (±0.20mm)		
0.094" (2.38mm)	±0.010" (±0.25mm)		
0.125" (3.18mm)	±0.017" (±0.43mm)		

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