

BISCO® HT-870 – SOFT CELLULAR SILICONE (continued)

PROPERTY	TEST METHOD	VALUE
ENVIRONMENTAL PROPERTIES		
Water Absorption	Internal: 24 hrs @ room temp.	2.50 %
UV Resistance	SAE J - 1960	No Degradation
Ozone Effect Rating	ASTM D 1171	0 (No Cracks)
Corrosion Resistance	AMS - 3568	Pass
ELECTRICAL & THERMAL PROPERTIES		
Dielectric Constant	ASTM D 150	1.38
Dielectric Strength	ASTM D 149, Volts/mil	90
Dry Arc Resistance	ASTM D 495, Seconds	91
Volume Resistivity, Ohm - cm	ASTM D 257	10 ¹⁴
Thermal Conductivity, BTU in/hr/ft ² /°F (w/m °K)	ASTM C 518	0.49 (0.07)
TEMPERATURE RESISTANCE		
Low Temperature Flex at -67°F (-55°C)	ASTM D 1056	Pass
Recommended Use Temperature, °F (°C)	SAE J-2236	-67 to 392 (-55 to 200)
Recommended Intermittent High Temperature Use, °F (°C)	Internal	482 (250)

Standard Thickness Tolerance

Standard Thickness		Tolerance (Inches)
Inches	mm	
1/16	0.062	1.57 ± 0.020
3/32	0.094	2.39 ± 0.020
1/8	0.125	3.18 ± 0.025
3/16	0.188	4.76 ± 0.030
1/4	0.250	6.35 ± 0.030
3/8	0.375	9.53 ± 0.045
1/2	0.500	12.70 ± 0.050

Width Tolerance (Cellular)

Nominal Width (Inches)	Tolerance (w/o PSA)	Tolerance (with PSA)
0 < T ≤ 3	± 0.063	± 0.031
3 < T ≤ 8	± 0.094	± 0.031
8 < T ≤ 12	± 0.125	± 0.031
12 < T ≤ 18	± 0.188	± 0.031
18 < T ≤ 26	± 0.219	± 0.063
26 < T ≤ 36	± 0.250	± 0.063

Notes:

- All metric conversions are approximate.
- Additional technical information is available.
- Typical values are a representation of an average value for the population of the property. For specification values contact Rogers Corporation.

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