

BISCO® HT-6135 TIGHT TOLERANCE SOLID SILICONE

BISCO® HT-6135 is a cream colored, solid silicone, 35 durometer Shore A material offered with tight width and thickness tolerances. This unique product is designed to enable the material to solve many design sealing issues within various industrial and handheld device markets. BISCO HT-6135 material is available in various thicknesses and manufactured in roll form to allow fabricators to easily convert the material to the proper dimensions.

Features and Benefits

- Superior long term performance and durability
- Tight thickness tolerances for greater design reliability
- Wide temperature range for increased functionality under varying environmental conditions

Applications

- Industrial machinery
- Handheld device gaskets

Silicone HT-6135 – Typical Physical Properties At 1/16" (1.59mm) thick		
Property	Test Method	Typical Value
Thickness		0.010" (0.25 mm)
		0.020" (0.50 mm)
		0.031" (0.79 mm)
		0.063" (1.59 mm)
Durometer, Pts	ASTM D 2240	35
Tensile, psi	ASTM D 412	800
Elongation, %	ASTM D 412	450
Tear Resistance, ppi	ASTM D 624	70
Compression Set, % (70 hrs @ 300°F, 25% compression)	ASTM D 395	15
Temperature		-80° to 425°F
	Continuous	SAE J-2236 (-62° to 218°C)
Color		Cream

Material Options

- Material is available with an acrylic or silicone pressure sensitive adhesive applied at greater than 0.031" (0.79mm) thickness

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Standard Thickness Tolerance

Standard Thickness (Inches)	Tolerance (Inches)
≤ 0.014	± 0.002
0.015 – 0.025	+0.003, -0.002
0.026 – 0.040	± 0.004
0.041 – 0.094	± 0.006
0.095 – 0.145	± 0.008

Width Tolerance

Nominal Width (Inches)	Tolerance (Inches)
$0 < T \leq 3$	± 0.063
$3 < T \leq 8$	± 0.094
$8 < T \leq 12$	± 0.125
$12 < T \leq 18$	± 0.188
$18 < T \leq 26$	± 0.219
$26 < T \leq 36$	± 0.250
>36	± 0.313

Notes:

1. All metric conversions are approximate.
2. Additional technical information is available.
3. 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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