
AUBURN PRODUCT NEWS

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HT-6135 TIGHT TOLERANCE SOLID SILICONE

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. Auburn HT-6135 material is available in various thicknesses and manufactured in roll form to allow it to be easily converted (die cut) into gaskets and seals with tight tolerances and clean cut edges.

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" (1.59 mm) 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 @ 30°F, 25% compression)	ASTM D 395	15
Temperature (continuous)	SAE J-2236	-80°F to 425°F (-62°C to 218°C)
Color		Cream

Material Options

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

Note: The technical information and data provided here should be considered representative or typical only and should not be used for specification purposes. User should evaluate this product to determine whether it is fit for a particular purpose and suitable for user's method of application.

HT-6135 TIGHT TOLERANCE SOLID SILICONE (continued)

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 ≤ 3	± 0.063
3 < T ≤ 8	± 0.094
8 < T ≤ 12	± 0.125
12 < T ≤ 18	± 0.188
18 < T ≤ 26	± 0.219
> 36	± 0.313

Notes:

1. All metric conversions are approximate.
2. Additional technical information is available.
3. Samples are available with or w/out adhesive