


Typical Product Properties
BISCO® HT-6135 Liquid Silicone Rubber Sheetting (35 Durometer)

| PHYSICAL PROPERTY | | TYPICAL VALUE | TEST METHOD |
|--|---|-----------------------------|-----------------|
| Durometer, Shore "A" (pts) | | 35 | ASTM D 2240 |
| Tensile Strength, psi (MPa) | | 800 (5.5) | ASTM D 412 |
| Elongation, % | | 450 | ASTM D 412 |
| Tear Strength, ppi (kN/m) | | 70 (12.3) | ASTM D 624 |
| Compression Set, % 70 hr @ 302°F (150°C) | | <15 | 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, % | -30 | 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, % | -20 | ASTM D 471 |
| | Change in Elongation, % | -20 | ASTM D 471 |
| | Change in Volume, % | +15 | ASTM D 471 |
| Electrical and Thermal Properties | Dielectric Constant | 3.0 | ASTM D 150 |
| | Dielectric Strength, Volts/mil | 500 | 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 (-62-218) | SAE J-2236 |
| Dimensions | Available Thickness Range, Inches (mm) | 0.010 to 0.125 (0.3 to 3.2) | N/A |
| | Standard Width, Inches (mm) | 36 (914) | N/A |
| | Standard Color | Cream | N/A |

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