

Typical Product Properties

BISCO® HT-6220 Liquid Silicone Rubber Sheetting (20 Durometer)

| PHYSICAL PROPERTY | | TYPICAL VALUE | TEST METHOD |
|---|--|---------------------------|-----------------|
| Durometer, Shore "A" (pts) | | 20 | ASTM D 2240 |
| Tensile Strength, psi (MPa) | | 800 (5.5) | ASTM D 412 |
| Elongation, % | | 650 | ASTM D 412 |
| Tear Strength, ppi (kN/m) | | 55 (9.6) | ASTM D 624 |
| Compression Set, % 70 hr @ 302°F (150 °C) | | 25-30 | 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, % | -40 | 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, % | -35 | ASTM D 471 |
| | Change in Elongation, % | -40 | ASTM D 471 |
| | Change in Volume, % | +10 | ASTM D 471 |
| Electrical and Thermal Properties | Dielectric Constant | 3.0 | ASTM D 150 |
| | Dielectric Strength, Volts/mil | 400 | 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) | -80-425 (-62-218) | SAE J-2236 |
| Dimensions | Available Thickness Range, Inches (mm) | 0.010 to 125 (0.3 to 3.2) | N/A |
| | Standard Width, Inches (mm) | 36 (914) | N/A |
| | Standard Color | Black | N/A |

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