

BISCO[®] HT-1200 Series

BISCO[®] HT-1200 general purpose solid silicone series offers resistance to high temperatures, tear, and most fluids for a variety of industrial applications. Material is compliant with A-A-59588, AMS 3301-3305, FDA 21 CFR 177.2600, and NSF 51/61 (File MH62230).

| PROPERTY | TEST METHOD | STANDARD DUROMETER | | | |
|-----------------------------------|---|---|---------------|----------------|---------------|
| PHYSICAL | | | | | |
| Description | | 1240 | 1250 | 1260 | 1270 |
| Color | Visual | Red (Stocked) Black, Gray, White (Made to Order) | | | ·) |
| Thickness, mm (inches) | Internal | 0.79 - 3.18 (0.031 - 0.125) | | | |
| Specific Gravity, (g/cc) | Internal | 1.1 | 1.16 | 1.23 | 1.29 |
| Durometer, Shore A | ASTM D2240 | 40 ± 5 | 50 ± 5 | 60 ± 5 | 70 ± 5 |
| Compression Set, % | ASTM D395 150°C (302°F) / 70 hrs / 25% | ≤ 25 | ≤ 25 | ≤ 25 | ≤ 25 |
| Tensile Strength, MPa (psi) | ASTM D751 | 7.65 (1110) | 7.1 (1030) | 6.95 (1010) | 7.2 (1050) |
| Tensile Elongation, % | ASTM D412 | ≥ 240 | ≥ 200 | ≥ 150 | ≥ 125 |
| EFFECTS OF DRY HEAT AGING | | | | | |
| Change in Hardness, Shore A (pts) | ASTM D573 225℃ (437°F) / 70 hrs | ±10 | ±10 | ±10 | ±10 |
| Change in Tensile Strength, % | | -20 | -20 | -20 | -25 |
| Change in Elongation, % | | -40 | -40 | -40 | -40 |
| EFFECTS OF WATER IMMERSION | | | | | |
| Change in Volume, % | ASTM D471 100°C (212°F) / 70 hrs | +10 | +5 | +5 | +5 |
| EFFECTS OF OIL IMMERSION | | | | | |
| Change in Hardness, Shore A (pts) | ASTM D471 150°C (302°F) /70 hrs | -10 to +5 | -10 to +5 | -10 to +5 | -10 to +5 |
| Change in Tensile Strength, % | | -10 | -10 | -10 | -10 |
| Change in Elongation, % | | -15 | -15 | -15 | -15 |
| Change in Volume, % | | +5 | +5 | +5 | +5 |



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| PROPERTY | TEST METHOD | | STANDARD | DUROMETER | |
|--------------------------------------|-------------------------|----------------------------|----------|-----------|------|
| THERMAL PROPERTIES | | 1240 | 1250 | 1260 | 1270 |
| Low Temperature Brittleness, °C (°F) | ASTM D2137 -68 (-80) | Pass | Pass | Pass | Pass |
| Recommended Use Temperature, °C (°F) | Internal | -62 to 218 (-80 to 425) | | | |

Standard Thickness Tolerances

| NOMINAL THICKNESS | TOLERANCE | |
|-------------------|-------------|--|
| mm (inches) | mm (inches) | |
| 0.787 | ± 0.127 | |
| (0.031) | (± 0.005) | |
| 1.600 | ± 0.165 | |
| (0.063) | (± 0.007) | |
| 2.388 | ± 0.254 | |
| (0.094) | (± 0.010) | |
| 3.175 | ± 0.432 | |
| (0.125) | (± 0.017) | |

Slit Material and Tape (PSA) Width Tolerances

| NOMINAL WIDTH | TOLERANCE | | |
|---------------|-------------|--|--|
| mm (inches) | mm (inches) | | |
| > 0 - 76 | ± 1.60 | | |
| (> 0 - 3) | (± 0.063) | | |
| > 76 - 203 | ± 2.39 | | |
| (> 3 - 8) | (± 0.094) | | |
| > 203 - 305 | ± 3.18 | | |
| (> 8 - 12) | (± 0.125) | | |
| > 305 - 610 | ± 4.78 | | |
| (> 12 - 24) | (± 0.188) | | |
| > 610 - 914 | + 25.4/- 0 | | |
| (> 24 - 36) | (+ 1/- 0) | | |

VALUE ADDED OFFERINGS

- Adhesive (PSA) lamination
- Slit material/tapes

Notes:

- All metric conversions are approximate. Reference US customary units for official values and tolerances.
- Additional technical information is available.
- Values should not be used for specification limits.



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