

BISCO® HT-1200 Series

Product Data Sheet

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 3301-3304, and FDA 21 CFR 177.2600.

PROPERTY	TEST METHOD	STANDARD DUROMETER			
		1240	1250	1260	1270
PHYSICAL					
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, % max	ASTM D395 70 hrs @ 150°C (302°F)	25	25	25	25
Tensile Strength, kPa (psi)	ASTM D751	7650 (1110)	7100 (1030)	6950 (1010)	7200 (1050)
Tensile Elongation, %	ASTM D412	530	370	260	210
EFFECTS OF DRY HEAT AGING					
Change in Hardness, Shore A, max		±10	±10	±10	±10
Change in Tensile Strength, % max	ASTM D573 70 hrs @ 225°C (437°F)	-20	-20	-20	-25
Change in Elongation, % max		-40	-40	-40	-40
EFFECTS OF WATER IMMERSION					
Change in Volume, %	ASTM D471 70 hrs @ 100°C (212°F)	+10	+5	+5	+5

PROPERTY	TEST METHOD	STANDARD DUROMETER			
		1240	1250	1260	1270
THERMAL PROPERTIES					
Low Temperature Brittleness, °C (°F)	ASTM D2137 -62.2 (-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)
0.7874 (0.031)	± 0.127 (± 0.005)
1.6002 (0.063)	± 0.1651 (± 0.0065)
2.3876 (0.094)	± 0.254 (± 0.010)
3.175 (0.125)	± 0.4318 (± 0.017)

Slit Material and Tape (PSA) Width Tolerances

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