

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 D412	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°C (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)		-10 to +5	-10 to +5	-10 to +5	-10 to +5
Change in Tensile Strength, %	ASTM D471 150°C (302°F) /70 hrs	-10	-10	-10	-10
Change in Elongation, %		-15	-15	-15	-15
Change in Volume, %		+5	+5	+5	+5





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.

