Argent

bisco®
TRUSTED TO THE EXTREME

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(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)	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

ROGERS CORPORATION

The information contained in this Data Sheet is intended to assist you in designing with Rogers' Elastomeric Material Solutions. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose or that the results shown in this Data Sheet will be achieved by a user for a particular purpose. The user should determine the suitability of Rogers BISCO products for each application. The Rogers logo, BISCO logo, and BISCO are trademarks of Rogers Corporation or one of its subsidiaries. © 2003, 2020, 2021, 2023 Rogers Corporation. All rights reserved. 1023-PDF • Publication #180-068 www.rogerscorp.com

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 (0.031)	± 0.127 (± 0.005)
1.600 (0.063)	± 0.165 (± 0.007)
2.388 (0.094)	± 0.254 (± 0.010)
3.175 (0.125)	± 0.432 (± 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.

The information contained in this Data Sheet is intended to assist you in designing with Rogers' Elastomeric Material Solutions. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose or that the results shown in this Data Sheet will be achieved by a user for a particular purpose. The user should determine the suitability of Rogers BISCO products for each application. The Rogers logo, BISCO logo, and BISCO are trademarks of Rogers Corporation or one of its subsidiaries. © 2003, 2020, 2021, 2023 Rogers Corporation. All rights reserved. 1023-PDF • Publication #180-068 www.rogescorp.com