TECHNICAL DATA SHEET

Queensland Gaskets

BISCO® | HT-800 Medium Silicone Foam



BISCO® HT-800 medium-firm silicone foam embodies the transition in the BISCO Silicone Cellular series from soft and conformable to firm and durable. It simultaneously retains the lightness of a foam while exhibiting enhanced sealing capabilities of a traditional sponge rubber. Patented chemistry and cell structure provide a long term performance advantage.

Features & Benefits, applicable to all BISCO® Cellular Materials (Foams):

- Temperature independency
- UV/ Ozone resistant
- Rated to most stringent flame standards
  - † FDA compliant in accordance with regulation 21 CFR 177.2600

TECHNICAL INFORMATION

PROPERTY	TEST METHOD	TYPICAL VALUE*	SPECIFICATION**
PHYSICAL			
Color	Visual	**Black, Gray, Red**	---
Thickness, mm (inches)	Internal	**0.79 - 12.70 (0.031 - 0.500)**	See "Width Tolerance" table
Density, kg/m^3 (lb./ft^3)	Internal	352 (22)	**300 - 473 (18.7 - 29.5)**
Compression Force Deflection, kPa (psi)	ASTM D1056	67 (9.7)	**41 - 97 (6 - 14)**
Compression Set, %	ASTM D1056 100°C (212°F) / 22 hrs / 50%	2.4	< 10
Water Absorption, %	Internal 2" below water surface / 24 hrs / change in weight	0.5	< 5

Specification values in bold are tested on a batch basis.

Further industry specifications tested in tables below.

Contact us to discuss requirements and place your order 07 3277 3922

All information and data quoted has been provided by our suppliers and is based upon years of experience in the production and operation of sealing elements. This data may not be used to support any warranty claims. With its publication this latest edition supersedes all previous issues and is subject to change without further notice.

PROPERTY	TEST METHOD	TYPICAL VALUE*	SPECIFICATION**
FLAMMABILITY			
Flame Resistance	UL 94 (File E83967)	Meets	V-0 ; HF-1
Flame Spread Index (Is)	ASTM E162	Meets	Flaming Mode < 35
Smoke Density (Ds)	ASTM E662	Meets	Flaming Mode, 1.5 min, < 100 Flaming Mode, 4.0 min, < 200
Burn Length	FMVSS 302	Meets	< 100 mm/min

PROPERTY	TEST METHOD	TYPICAL VALUE*	SPECIFICATION**
THERMAL			
Temperature Range, °C (°F)	Internal	-55 to +200 (-67 to +392)	---
Thermal Conductivity, W/m °K	ASTM D518	0.048	---
Low Temperature Flex	ASTM D1056 -55°C (-67°F) / 5 hrs	Pass	---
Low Temperature Brittleness	ASTM D746 -55°C (-67°F) / 3 min	Pass	---

Standard Thickness Tolerances

NOMINAL THICKNESS	TOLERANCE
mm (inches)	mm (inches)
0.79 (0.031)	+ 0.381/0.102 (+ 0.015/-0.004)
1.60 (0.063)	± 0.508 (± 0.020)
2.39 (0.094)	± 0.508 (± 0.020)
3.18 (0.125)	± 0.635 (± 0.025)
4.78 (0.188)	± 0.635 (± 0.025)
6.35 (0.250)	± 0.762 (± 0.030)
9.53 (0.375)	± 1.143 (± 0.045)
12.70 (0.500)	± 1.270 (± 0.050)

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 - 457 (> 12 - 18)	± 4.78 (± 0.188)
> 457 - 660 (> 18 - 26)	± 5.56 (± 0.219)
> 660 - 914 (> 26 - 36)	+ 25.4/- 0 (+ 1/- 0)

VALUE ADDED OFFERINGS

- Adhesive (PSA) lamination
- Slit material/tapes

SPECIFICATION

- AMS3195

Notes:

*Typical Value- Value is based on historical data. Please note the frequency of testing varies.
**Specification- Applies to physical properties only, which are based on Rogers' internal benchmark and standard BISCO specification values. Additional industry specifications are available as well. All other properties are based on industry standard guidelines.

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