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## BISCO® HT-6360 Fire-Safe Solid Silicone

BISCO® HT-6360 fire-safe solid silicone is part of the performance grade series and designed to protect sensitive applications from flame damage. It helps solve safety and design issues in various industrial and transportation markets, such as fire barriers and smoke seals for rail car passenger compartments.

### Features & Benefits:

- Provides fire protection in enclosed compartments
- High tear strength and extremely tight thickness tolerances for gasket integrity
- Superior flame, smoke, and toxicity (FST) resistance performance
- Resistance to UV, ozone, extreme temperatures, and most fluids for consistent performance across many environments

PROPERTY	TEST METHOD	TYPICAL VALUE*	SPECIFICATION**
<b>PHYSICAL</b>			
Color	Visual	Black	---
Thickness, mm (inches)	Internal	<b>0.500 - 3.18</b> <b>(0.020 - 0.125)</b>	---
Specific Gravity, (g/cc)	Internal	1.71	---
Durometer, Shore A	ASTM D2240	60	<b>60 ± 5</b>
Compression Set, %	ASTM D395 150°C (302°F) / 70 hrs / 25%	< 35	---
Tensile Strength, MPa (psi)	ASTM D412	> 1.38 (> 200)	---
Elongation, %	ASTM D412	> 125	---

Specification values in bold are tested on a batch basis.

Further industry specifications tested in tables below.

PROPERTY	TEST METHOD	TYPICAL VALUE*	SPECIFICATION**
<b>ELECTRIC</b>			
Dielectric Strength, Volts/mil	ASTM D149	386	---
Dielectric Constant, 1 kHz	ASTM D150	2.76	---
Dissipation Factor, 1 kHz	ASTM D495	0.003	---
Dry Arc Resistance, Seconds	ASTM D495	124	---
Volume Resistivity, Ohm-cm	ASTM D257	10 <sup>14</sup>	---

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

PROPERTY	TEST METHOD	TYPICAL VALUE*	SPECIFICATION**
<b>THERMAL</b>			
Temperature Range, °C (°F)	Internal	-55 to +200 (-67 to +392)	---
Thermal Conductivity, W/m °K	ASTM D518	0.10	---
Low Temperature Brittleness	ASTM D2137 -62°C (-80°F) / 3 min	Pass	---

#### Standard Thickness Tolerances

NOMINAL THICKNESS	TOLERANCE
mm (inches)	mm (inches)
0.508 (0.020)	+ 0.076/- 0.051 (+ 0.003/- 0.002)
0.787 (0.031)	± 0.102 (± 0.004)
1.600 (0.063)	±0.152 (± 0.006)
3.175 (0.125)	± 0.203 (± 0.008)

#### Liner

Material is shipped between one or two polycarbonate carriers for easy handling based on product thickness. Liner must be removed prior to die cutting to allow the material to shrink and relax.

THICKNESS	CONSTRUCTION
mm (inches)	Liner type
≤0.787 (0.031)	Polycarbonate Liner Two Sides
>0.787 (0.031)	Polycarbonate Liner One Side

#### 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.

All metric conversions are approximate. Reference US customary units for official values and tolerances.

For more information and to request a sample, please contact our team of experts at [solutions@rogerscorp.com](mailto:solutions@rogerscorp.com)

#### 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 ≥ 0.787mm (0.031")
- Slit material/tapes