Product Data Sheet

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BISCO® HT-6360

BISCO® HT-6360 fire safe grade solid silicone is designed to protect sensitive applications from flame damage, enabling end users to solve safety and design issues in various industrial and transportation markets.

PROPERTY	TEST METHOD	TYPICAL VALUE*	SPECIFICATION**
PHYSICAL			
Color	Visual	Black	---
Thickness, mm (inches)	Internal	**0.500 - 3.18 (0.020 - 0.125)**	---
Specific Gravity, (g/cc)	Internal	1.71	---
Durometer, Shore A	ASTM D2240	63	**65 ± 5**
Compression Set, %	ASTM D395 150°C (302°F) / 70 hrs / 25%	< 35	---
Tensile Strength, MPa (psi)	ASTM D412	> 1.72 (> 250)	---
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**
ELECTRIC			
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	10^14	---

ROGERS CORPORATION

NEDC Sealing Solutions
New England Die Cutting

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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	1.5 min, Flaming Mode < 100 4.0 min, Flaming Mode < 200

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THERMAL			
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)

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 ≥ 0.031"
- Slit material/tapes

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.

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