

# BISCO® HT-6240SH

## 'Glass Clear' Silicone Rubber Sheet

### General Information

BISCO® HT-6240 transparent solid silicone is a part of the performance grade series designed to handle the most demanding gasketing applications. Its unique high clarity solves aesthetic concerns within various industrial and handheld device markets. Beyond the transparency feature, the material shares similar properties to its softer counterparts, including high tear strength and extremely tight thickness tolerances.

Features and benefits:

- Product transparency improves aesthetics
- High tear strength and extremely tight thickness tolerances for gasket integrity
- Resistance to UV, ozone, extreme temperatures, and most fluids for consistency performance across many environments.

### Material Properties

#### Physical

Property	Test Method	Typical Value*	Specification**
<b>Colour</b>	Visual	Transparent	-
<b>Thickness, mm (inches)</b>	Internal	<b>0.250 – 3.18</b> <b>(0.010 – 0.125)</b>	-
<b>Specific Gravity, g/cm<sup>3</sup></b>	Internal	1.07	-
<b>Durometer, Shore A</b>	ASTM D2240	41	<b>40 ± 5</b>
<b>Compression Set, %</b>	ASTM D395 150°C (302°F / 70 hrs / 25%)	<35	-
<b>Tensile Strength, MPa (psi)</b>	ASTM D412	7.17 (1040)	<b>&gt;4.8</b> <b>(&gt;700)</b>
<b>Elongation, %</b>	ASTM D412	325	<b>&gt;200</b>
<b>Tear Resistance, ppi</b>	ASTM D624	112	<b>&gt;70</b>

Specification values in bold are tested on a batch basis.

Further industry specifications tested in the tables below.

#### Electric

Property	Test Method	Typical Value*	Specification**
<b>Dielectric Strength, Volts/mil</b>	ASTM D149	386	-
<b>Dielectric Constant, 1 kHz</b>	ASTM D150	2.76	-
<b>Dissipation Factor, 1 kHz</b>	ASTM D495	0.003	-
<b>Dry Arc Resistance, Seconds</b>	ASTM D495	124	-
<b>Volume Resistivity, Ω·cm</b>	ASTM D257	10 <sup>14</sup>	-

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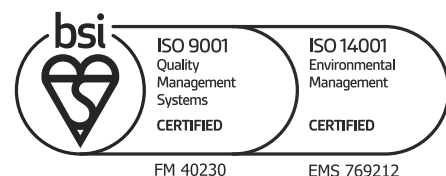
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### Thermal

Property	Test Method	Typical Value*	Specification**
Temperature Range, °C (°F)	Internal	-55 to + 200 (-67 to +392)	-
Thermal Conductivity, W/m°K	ASTM D518	0.21	-
Low Temperature Brittleness	ASTM D2137 -62°C (-80°F) / 3 min	Pass	-

### Standard Thickness Tolerances

Nominal Thickness mm (inches)	Tolerance mm (inches)
0.254 (0.010)	± 0.051 (± 0.002)
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 mm (inches)	Tolerance mm (inches)
> 0 – 76 (> 0 – 3)	± 1.60 (± 0.063)
> 76 – 206 (> 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)

### Linear

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

### Value Added Offerings

- Adhesive (PSA) lamination on ≥ 0.787mm (0.031")
- Slit material tapes

Thickness mm (inches)	Construction Linear type
<0.787 (0.031)	PET Liner Two Sides
>0.787 (0.031)	PET 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.

BISCO® Datasheet available [here](#)

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