

Information

BISCO® HT-200 Sound Block materials are specifically designed to reduce the transmission of sound within interior spaces while inhibiting the spread of fire and smoke. The elastomeric materials use a filler technology to solve acoustic, fire and smoke issues within a variety of markets. They are supplied in roll form, and to aid in your installation are available with or without adhesives and supported backings.

Features and benefits

- Flame retardant properties ensure compliance to international safety standards for Mass Transit and Aerospace.
- Filler technology reduces the spread of flame and toxic smoke during accidents, which are a leading cause of injuries.
- Sound transmission can be "tuned" by adjusting the areal density or weight of the materials. See tables for reference.
- Rubber elastomer has good tear strength with excellent resistance to compression set, UV light, moisture, and cleaning alcohols.
- Maintains properties at temperatures between -67°F and 482°F (-55°C and 250°C).

Applications

- Sub-flooring for railcars
- Interior vehicle panels
- Air ducts

Installation

- Available with a pressure-sensitive adhesive on one or two sides to allow easy application to a variety of surfaces.
- Also available with a fibreglass backing on either side of the product at no extra charge to allow users a variety of options for installation. The fibreglass backing enhances the strength and tear resistance of the material, which allows users to mechanically attach the Sound Block to various surfaces such as carpet or steel without sacrificing the integrity and durability of the BISCO Sound Block material.

Design Considerations

BISCO Sound Block may be applied and used in various forms. Please contact +44 (0) 121 773 8494 for further assistance or samples.

| Sound Transmission Loss Typical of HT-200 at Various Weights | | | | | |
|---|--|-------------------|------|-------------------|-------|
| TEST METHOD | TYPICAL SOUND TRANSMISSION LOSS RATING | AREAL DENSITY | | APPROX. THICKNESS | |
| | | KG/M ² | PSF | MM | IN. |
| ASTM E 90 | 29 | 7.32 | 1.50 | 3.81 | 0.150 |
| ASTM E 90 | 27 | 4.88 | 1.00 | 2.54 | 0.100 |
| ASTM E 90 | 25 | 3.66 | 0.75 | 1.91 | 0.075 |
| ASTM E 90 | 22 | 2.44 | 0.50 | 1.27 | 0.050 |
| ASTM E 90 | 16 | 1.22 | 0.25 | 0.64 | 0.025 |

| Flame Spread, Optical Density, and Oxygen Index | | |
|---|---------------------|--------------------|
| TEST METHOD | IDENTIFICATION | TYPICAL PROPERTIES |
| ASTM E 162 | Is | < 5 |
| ASTM E 662 | DSs Flaming | < 25 |
| | Ds Non-Flaming | < 25 |
| ASTM D 2863 | Oxygen Index, % | 50 |
| SMP-800C | Toxic Gas Emissions | Pass |

Convertors and suppliers of die cut gaskets, tape, sheeting, fabrications, machined plastic components, rubber mouldings, extrusions and adhesives.



BISCO Sound Block – Acoustic Sound Transmission Data – ASTM E 90 and ASTM E 413

| FREQ | 1.22 kg/m ³ (0.25 PSF) | 2.44 kg/m ³ (0.50 PSF) | 3.66 kg/m ³ (0.75 PSF) | 4.88 kg/m ³ (1.0 PSF) | 7.32 kg/m ³ (1.5 PSF) |
|------------|--------------------------------------|--------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|
| | TL | TL | TL | TL | TL |
| 100 | 8 | 15 | 16 | 19 | 20 |
| 125 | 7 | 12 | 14 | 14 | 15 |
| 160 | 7 | 12 | 13 | 17 | 18 |
| 200 | 8 | 12 | 15 | 16 | 19 |
| 250 | 8 | 14 | 17 | 19 | 21 |
| 315 | 8 | 13 | 18 | 19 | 20 |
| 400 | 10 | 15 | 19 | 20 | 23 |
| 500 | 11 | 16 | 20 | 22 | 24 |
| 630 | 13 | 19 | 22 | 24 | 26 |
| 800 | 14 | 21 | 24 | 26 | 28 |
| 1000 | 16 | 22 | 25 | 28 | 30 |
| 1250 | 17 | 24 | 27 | 30 | 33 |
| 1600 | 19 | 26 | 29 | 21 | 34 |
| 2000 | 21 | 27 | 30 | 33 | 36 |
| 2500 | 22 | 29 | 32 | 34 | 38 |
| 3150 | 23 | 31 | 34 | 36 | 40 |
| 4000 | 25 | 31 | 36 | 38 | 41 |
| 5000 | 27 | 32 | 37 | 40 | 43 |
| STC | 16 | 22 | 25 | 27 | 29 |

FREQ = Frequency, Hertz (cps.);
 TL = Transmission Loss, dB;
 STC = Sound Transmission Class

Notes

- All metric conversions are approximate.
- Additional technical information is available.
- Typical values are a representative of an average value for the property for the population.

The information contained in this Data Sheet is intended to assist you in designing with BISCO Foams. 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 on the Data Sheet will be achieved by a user for a particular purpose. The user should determine the suitability of BISCO Foams for each application.

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