

BISCO® Silicones

BISCO® HT-200 SOUND BLOCK SILICONE

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. These elastomeric materials use a filler technology to solve acoustic, fire, and smoke issues for 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 -55°C and 250°C (-67°F and 482°F)
- Available through distribution sites throughout North America, Europe, and Asia.

Applications

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

Design Considerations

BISCO Sound Block may be applied and used in various forms. Please contact our Technical Service department at 800.755.6766 or 860.928.3622 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	I _s	< 5
ASTM E 662	DS _s Flaming	< 25
	D _s Non-Flaming	< 25
ASTM D 2863	Oxygen Index, %	50
SMP-800C	Toxic Gas Emissions	Pass

Installation

- Available with a pressure-sensitive adhesive on one or two sides to allow easy application to a variety of clean surfaces.
- Also available with a fiberglass backing on either side of the product at an extra charge to allow users a variety of options for installation. The fiberglass 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.

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BISCO® HT-200 SOUND BLOCK SILICONE, continued

BISCO® Sound Block – Acoustic Sound Transmission Data – ASTM E 90 and ASTM E 413					
FREQ	1.22 kg/m ² (0.25 PSF)	2.44 kg/m ² (0.50 PSF)	3.66 kg/m ² (0.75 PSF)	4.88 kg/m ² (1.0 PSF)	7.32 kg/m ² (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

- All metric conversions are approximate.
- Additional technical information is available.
- Typical values are a representation of an average value for the property for the population. For specification values, contact Rogers Corporation.

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