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BISCO® HT-200 Sound Block Silicone

Technical Data Sheet

BISCO® HT-200 sound block silicone combines the best noise reduction capabilities with superior fire resistance. The material is designed to reduce sound transmission in interior spaces while preventing the spread of fire and smoke.

Features & Benefits:

- Flame ratings ensure compliance to international safety standards for Mass Transit, Marine and Aerospace.
- Sound transmission can be "tuned" by adjusting the areal density. See tables for reference.
- Rubber elastomer has good tear strength with excellent resistance to UV light, moisture, and cleaning agents.
- Maintains properties at temperatures between -55°C and 250°C (-67°F and 482°F).

PROPERTY	TEST METHOD	TYPICAL VALUE*	SPECIFICATION**
PHYSICAL			
Color	Visual	Black	---
Areal Density, kg/m^2 (lb./ft^2)	Internal	1.22-7.32 (0.25-1.50)	---
Specific Gravity	Internal	2.05 +/- 0.03	---

PROPERTY	TEST METHOD	TYPICAL VALUE*	SPECIFICATION**
FLAMMABILITY			
Limited Oxygen Index	ASTM D2863	---	50
Flame Spread Index (Is)	ASTM E162	Meets	Flaming Mode <5
Smoke Density (Ds)	ASTM E662	Meets	Ds Flaming <25 Ds Non-Flaming <25
Toxic Gas Evolution	SMP 800C	Meets	---

PROPERTY	TEST METHOD	TYPICAL VALUE*	SPECIFICATION**
THERMAL			
Temperature Range, °C (°F)	Internal	-55 to +250 (-67 to +482)	---
Thermal Conductivity, W/m °K	ASTM D518	0.8	---

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Sound Transmission Loss Typical of HT-200 at Various Weights					
Test Method	Typical Sound Transmission Loss Rating	Areal Density		Approximate Thickness	
		kg/m²	psf	mm	inch
ASTM E90	29	7.32	1.50	3.81	0.150
ASTM E90	27	4.88	1.00	2.54	0.100
ASTM E90	25	3.66	0.75	1.91	0.075
ASTM E90	22	2.44	0.50	1.27	0.050
ASTM E90	16	1.22	0.25	0.64	0.025

Acoustic Transmission Data – ASTM E90 and ASTM E413				
FREQUENCY	1.22 kg/m² (0.25 PSF)	2.44 kg/m² (0.50 PSF)	4.88 kg/m² (1.00 PSF)	7.32 kg/m² (1.50 PSF)
	TL	TL	TL	TL
100	8	15	19	20
125	7	12	14	15
160	7	12	17	18
200	8	12	16	19
250	8	14	19	21
315	8	13	19	20
400	10	15	20	23
500	11	16	22	24
630	13	19	24	26
800	14	21	26	28
1000	16	22	28	30
1250	17	24	30	33
1600	19	26	21	34
2000	21	27	33	36
2500	22	29	34	38
3150	23	31	36	40
4000	25	31	38	41
5000	27	32	40	43
STC	**16**	**22**	**27**	**29**

FREQUENCY = Hertz (cps.)
TL = Transmission Loss, dB
STC = Sound Transmission Class

To order BISCO materials, please contact our Sales Specialists at 860.928.3622 or via email at EMS_CT_cust_serv@rogerscorporation.com