TECHNICAL DATA SHEET

SOUNDFOAM HTC

SOUNDCOAT

PRODUCT DESCRIPTION

Soundfoam HTC is a lightweight, flexible, open cell, polyimide based foam having excellent resistance to heat, flame, and humidity. It exhibits a very low degree of flammability. It does not drip upon ignition, ceases to burn after removal of source of ignition, and produces a minimum amount of smoke. Soundfoam HTC is recommended when light weight, heat resistance, and fire safety is of utmost concern.

PRODUCT CONFIGURATIONS

- Decorative and protective finishes:
  - Reinforced aluminized polyester film
  - Tedlar®
  - Nomex®/Tedlar® fabric

MARKETS

TYPICAL APPLICATIONS

- Launch vehicles, satellites, engine power systems, planes, and helicopters

PHYSICAL PROPERTIES: MECHANICAL & THERMAL

	TEST METHOD	SI VALUE	U.S. VALUE
Density	ASTM D 3574, Test A	7.1 kg/m3	0.44 lb/ft3
Load Deflection At 25% Compression	Boeing BMS 8-300	156 N/323 cm2	35 lb/50 in2
Compression Set At 50% Deflection	ASTM D 3574, Test D	< 40%	< 40%
Flexibility	Boeing BMS 8-300	No creasing or tearing	No creasing or tearing
Tensile Strength	ASTM D 3574, Test E	> 59 kPa	> 8.5 psi
Thermal Conductivity (k)	ASTM C 518 at mean temperature of 24°C (75°F)	0.043 W/(m·K)	0.30 (Btu·in)/(hr·ft2·°F)
Continuous Use Temperature	Recommended maximum	200°C	400°F

THE SOUNDCOAT PROMISE

We have one goal: to enhance the customer experience by providing world-class products manufactured under ISO 9001:2015 and AS9100:2016 standards in one of our modern manufacturing facilities strategically located on each coast.

All materials are tested and qualified in our acoustics and materials testing laboratory to ensure consistent quality and performance.

Soundcoat products are supplied, tested, and produced to your specifications.

HQ | 1 Burt Drive | Deer Park, NY | 11729 | US
Phone: 631.242.2200 | Fax: 631.242.2246

West Coast Operations | 16901 Armstrong Ave | Irvine, CA | 92606 | US
Phone: 949.955.9202 | Fax: 949.222.0834

www.soundcoat.com | sales@soundcoat.com | 1.800.394.8913 | Follow The Soundcoat Company, Inc.

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PHYSICAL PROPERTIES: FLAMMABILITY & AGING/OUTGASSING

	TEST METHOD	SI VALUE	U.S. VALUE
Oxygen Index	ASTM D 2863	30%	30%
Vertical Burn	FAR 25.853(a)	After flame time: 0 seconds Burn length: 46 mm Dripping: None	After flame time: seconds Burn length: 1.8 inches Dripping: None
Smoke Emission: Ds at 4.0 minutes	FAR 25.853(d)	3	3
Toxic Gas Generation:	Boeing BSS 7239, flaming mode	CO: 150 ppm HCN: Not detected HF: Not detected HCl: Not detected SO2: Not detected NOx: Not detected	CO: 150 ppm HCN: Not detected HF: Not detected HCl: Not detected SO2: Not detected NOx: Not detected
Flame Spread Index & Smoke Developed	ASTM E 162 & ASTM E 662	> 5 & > 5	> 5 & > 5
Dry Oven Aging:	Boeing BMS 8-300, ASTMD 3574, Test D and FAR 25.853(a), after aging at 70°C (158°F) for 7 days in accordance with ASTM D 573	Load deflection change: ± 2% Compression set change: ±4% Volume shrinkage: <2% Vertical Burn - After flame time: 0 seconds Vertical Burn - Burn length: 46 mm Vertical Burn – Dripping: None	Load deflection change: ±2% Compression set change: ±4% Volume shrinkage: <2% Vertical Burn - After flame time: 0 seconds Vertical Burn - Burn length: 1.8 inches Vertical Burn – Dripping: None
Outgassing	ASTM E 595	TML: < 1.0% CVCM: < 0.1%	TML: < 1.0% CVCM: < 0.1%

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PERFORMANCE: ACOUSTICAL

ACOUSTICAL ABSORPTION COEFFICIENTS FOR CONDITIONED* HT FOAM
(metric sabins/m2 or sabins/ft2)
ASTM C 423 and E 795, Type A Mounting

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
25 mm (1 inch)	0.15	0.30	0.71	0.94	0.97	0.79	0.75

Rev. date 8/30/2024

Visit soundcoat.com to see our complete line of absorption, barrier, damping, sealing, and thermal materials.

For further information on meeting specific requirements and for optimum product configuration, contact our Technical Support Department at 1-800-394-8913.

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