SOLIMIDE® AC-550 Data Sheet

SOLIMIDE® AC-550 polyimide foam is utilized in aircraft and aerospace markets as a lightweight, non-wicking, thermal and acoustic insulation material where low fire, toxicity and smoke generation are critical. It is formaldehyde-free and demonstrates excellent long term stability under humid conditions and after temperature cycling. SOLIMIDE® AC-550 insulation is used in a variety of applications, including aircraft fuselage, under floor, ECS ducts and equipment. The foam can be cut into numerous shapes and sizes, and is compatible with many different facings, coatings and adhesives to meet end use requirements.

Specifications / Certificates

- Boeing BMS 8-300
- Bombardier BAMS 544-006
- Boeing (Douglas) DMS 2330
- ASTM C 1482
- Hamilton Sundstrand HS 14190
- Lockheed Martin LAC 23-4831
- SOLIMIDE® Foams may meet additional specifications that are not listed here. Please contact us to determine if it meets your specifications or other requirements.

PROPERTIES	UNITS	VALUES	TESTING
Density	lb/ft³ (kg/m³)	0.44 (7.1)	ASTM D3574 Test A, ISO 845
FAA Radiant Panel FAR 25.856(a)		Pass	
Smoke Developed Index Flaming & Non-flaming Modes		< 5	ASTM E662
Noise Reduction Coefficient (NRC), 1 in (25mm)		0.75	ASTM C423 and E795, Mounting A
Max Continuous Use Temperature	°F (°C)	400 (200)	
Thermal Conductivity at 75°F (24°C)	BTU-in/hr-ft²-°F (W/mK)	0.32 (0.046)	ASTM C518
Offgassing / Outgassing TMI	%	< 1.0	ASTM E595
Offgassing / Outgassing CVCM	%	< 0.1	ASTM E595

* The information included in this data sheet is believed to be accurate and reliable. BOYD Corporation assumes no responsibility for end use applications and no performance warranty is express or implied.

* Subject to normal manufacturing variation

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SOLIMIDE® AC-550 (H) Data Sheet

SOLIMIDE® AC-550 (H) polyimide foam is utilized in aircraft and aerospace markets as a lightweight, non-wicking thermal and acoustic insulation material where low fire, toxicity and smoke generation are critical. It is formaldehyde-free and demonstrates excellent long term stability under humid conditions and after temperature cycling. Similar to AC-550 foam, AC-550 (H) foam is slightly more dense for improved thermal properties. Applications include aircraft sidewalls and ECS systems, as well as cushioning, thermal protection and vibration damping in space applications. SOLIMIDE® AC-550 (H) foam can be cut into numerous shapes and sizes, and is compatible with many different facings, coatings and adhesives to meet end-use requirements.

Specifications / Certificates

- Airbus AIMS 04-14-006
- Embraer MEP-17-010
- Hughes HMS 17-1186
- Lockheed Martin (formerly General Dynamics) 5-06147
- Sikorsky SS9232
- ASTM C 1482

PROPERTIES	UNITS	VALUES	TESTING
Density	lb/ft³ (kg/m³)	0.50 (8.0)	ASTM D3574 Test A, ISO 845
FAA Radiant Panel FAR 25.856(a)		Pass	
Smoke Developed Index Flaming and Non-Flaming Mode		< 5	ASTM E662
Max Continuous Use Temperature	°F (°C)	400 (200)	
Thermal Conductivity at 75°F (24°C)	BTU-in/hr-ft²-°F (W/mK)	0.30 (0.043)	ASTM C518
Offgassing / Outgassing TMI	%	< 1.0	ASTM E595
Offgassing / Outgassing CVCM	%	< 0.1	ASTM E595

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