

Datasheet

SOLIMIDE® AC-550H



SOLIMIDE® AC-550H 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-550H 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-550H 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
Typical Density*	kg/m ³ (lb/ft ³)	8.0 (0.50)	ASTM D3574 Test A, ISO 845
FAA Radiant Panel FAR 25.856(a)		Pass	
Smoke Developed Index Flaming and Non-Flaming Modes		< 5	ASTM E662
Max Continuous Use Temperature	°C (°F)	200 (400)	
Thermal Conductivity at 24°C (75°F)	W/mK (BTU-in/hr-ft ² -°F)	≤ 0.043 (0.30)	ASTM C518
Offgassing / Outgassing TMI	%	< 1.0	ASTM E595
Offgassing / Outgassing CVCM	%	< 0.1	ASTM E595

*Subject to normal manufacturing variation

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