

TECHNICAL DATASHEET: Polyimide Foam

PRODUCT DESCRIPTION

Polyimide is a lightweight, non-wicking, thermal and acoustic insulation foam utilized where low fire, toxicity and smoke generation are critical.

TYPICAL APPLICATIONS

- Aircraft and aerospace applications including aircraft fuselage, under floor, ECS ducts and equipment
- Oven Insulation, vent duct insulation and many more where temperature resistance is critical
- Great for sound damping
- Excellent acoustic absorption

PRODUCT FEATURES & BENEFITS

- Excellent long-term stability under humid conditions and after temperature cycling
- Formaldehyde free
- Easily die-cut
- Emits virtually no smoke or toxic-by-products when exposed to open flame
- Lightweight yet durable

TECHNICAL DATA	VALUE	TEST METHOD / STANDARD
THICKNESS	1/2"	
COLOR	Light Yellow	
MATERIAL / SUBSTRATE	Polyimide Foam	
DENSITY	0.44 lb/ft ³	ASTM D3574 (TEST A), ISO 845
SMOKE DEVELOPED INDEX FLAMING & NON-FLAMING MODES	<5	ASTM E662
NOISE REDUCTION COEFFICIENT (NRC), 1 IN	0.75	ASTM C423
NOISE REDUCTION COEFFICIENT (NRC), 1 IN	0.75	ASTM E795, MOUNTING A
MAXIMUM CONTINUOUS USE TEMPERATURE	400°F	
THERMAL CONDUCTIVITY @ 75°F	0.32 btu/(h·ft ² ·°F)	ASTM C518
OFFGASSING/OUTGASSING TMI	< 1.0 %	ASTM E595
OFFGASSING/OUTGASSING CVCM	< 0.1 %	ASTM E595
FAR 25.856 (a) - (FAA RADIANT PANEL)	Pass	
FLAME RETARDANT	Yes	
ASTM C1482	Yes	
BOEING BMS 8-300	Yes	
BOEING (DOUGLAS) DMS 2330	Yes	
BOMBARDIER BAMS 544-006	Yes	
HAMILTON SUNDSTRAND HS 14190	Yes	
LOCKHEED MARTIN LAC 23-4831	Yes	

Specifications are believed to be accurate at the time of publication and are subject to change without notice. It is the responsibility of the end-user to test and determine suitability of this material for a particular application. **REV. 0**