

TECHNICAL DATASHEET:

Polyimide Foam with Rubber Adhesive and Aluminum Foil

PRODUCT DESCRIPTION

Polyimide is a lightweight, non-wicking, thermal and acoustic insulation foam utilized where low fire, toxicity and smoke generation are critical. The rubber PSA is designed for difficult bonding applications and has excellent quick stick and shear properties for permanent bonding applications on foams, plastics, metals and composite materials subjected to a broad range of temperatures. The aluminum foil has high temperature resistance and exhibits no afterglow or foil rupture exceeding the area of direct flame contact-self-extinguishing.

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
- Rubber adhesive meets adhesive requirements of GM3622, CHRYSLER MS-CC211 and DELPHI SD2-324
- Aluminum foil meets FMVSS-302 requirements

| TECHNICAL DATA | VALUE | TEST METHOD / STANDARD |
|---|-------------------------|------------------------------|
| THICKNESS | 1/2" | |
| BACKING/CARRIER | 60# densified kraft | |
| ADHESIVE SYSTEM | Permanent Adhesive | |
| ADHESIVE SIDE | Single Sided Adhesive | |
| ADHESIVE TYPE | Rubber (SLM360) | |
| COLOR | Light Yellow | |
| PEEL ADHESION | 96 oz/inch | PSTC-101 |
| COLD WEATHER FLEXIBILITY | Good | |
| 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 |
| MAXIMUM CONTINUOUS USE TEMPERATURE | 400°F | |
| MAXIMUM CONTINUOUS USE TEMPERATURE, RUBBER ADHESIVE | 180°F | |
| MINIMUM CONTINUOUS USE TEMPERATURE, RUBBER ADHESIVE | -10°F | |

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**

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|---|----------------------------------|--------------------------|
| THERMAL CONDUCTIVITY @ 75°F | 0.32 btu/(h·ft ² ·°F) | ASTM C518 |
| TENSILE STRENGTH | 20 lb/in | ASTM D822 |
| 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 | |
| FMVSS-302 | Pass | |
| ASTM C1482 | Yes | |
| BOEING BMS 8-300 | Yes | |
| BOEING (DOUGLAS) DMS 2330 | Yes | |
| BOMBARDIER BAMS 544-006 | Yes | |
| HAMILTON SUNDRAND HS 14190 | Yes | |
| LOCKHEED MARTIN LAC 23-4831 | Yes | |
| MULLEN BURSTING STRENGTH | 40 psi minimum | ASTM D774 |
| NOISE REDUCTION COEFFICIENT (NRC), 1 IN | 0.75 | ASTM C423 |
| NOISE REDUCTION COEFFICIENT (NRC), 1 IN | 0.75 | ASTM E795, MOUNTING A |
| BASIS WEIGHT, ALUMINUM FOIL | 20 lbs/msf | |

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