

Evonik Corporation Solimide® AC-530-AIMS Polyimide Foam

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic

Material Notes:

Description: SOLIMIDE® foams provide weight savings, improved handling/installation characteristics and enhanced durability compared to traditional insulation, resulting in lower operating and life cycle costs. In addition, the foams are extremely fire resistant and do not support combustion in normal atmospheres. Toxic gas, smoke generation and offgassing are virtually non-existent. These foam products are widely used in private, commercial, and military aircraft. SOLIMIDE® foams are specified and flying in Airbus, Boeing, Canadair, Boeing-Douglas, Hughes Helicopter, and Sikorsky Helicopter aircraft, among others. Meets AIMS 04-14-004, they are also approved for use in NASA systems. Information provided by degussa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Solimide-AC-530-AIMS-Polyimide-Foam.php

Physical Properties	Metric	English	Comments
Density	0.00577 g/cc	0.000208 lb/in ³	ASTM D3574A

Mechanical Properties	Metric	English	Comments
Compressive Strength	0.00217 MPa	0.315 psi	Load Deflection at 25% Compression; ASTM D3574B
Compression Set	<= 30 %	<= 30 %	50% Deflection; ASTM D3574D

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0470 W/m-K	0.326 BTU-in/hr-ft ² -°F	ASTM C518
Maximum Service Temperature, Air	200 °C	392 °F	Continuous Use
Flammability Test	0.00	0.00	seconds, Vertical Burn After Flame Time (Burn Length = 2.2 inches with no dripping); FAR 25.853(a), Appendix F, Part 1, (a)(1)(i)
Oxygen Index	>= 30 %	>= 30 %	ASTM D2863

Descriptive Properties	Value	Comments
Acoustical Absorption Coefficient (1000Hz)	1.05 sabins/m ²	25 mm, ASTM C423 and E795, Type A Mounting
Acoustical Absorption Coefficient (125 Hz)	0.06 sabins/m ²	25 mm, ASTM C423 and E795, Type A Mounting
Acoustical Absorption Coefficient (2000 Hz)	1.02 sabins/m ²	25 mm, ASTM C423 and E795, Type A Mounting
Acoustical Absorption Coefficient (250 Hz)	0.17 sabins/m ²	25 mm, ASTM C423 and E795, Type A Mounting
Acoustical Absorption Coefficient	0.93 sabins/m ²	

(4000 Hz) Descriptive Properties	Value	25 mm, ASTM C423 and E795, Type A Mounting Comments
Acoustical Absorption Coefficient (500 Hz)	0.52 sabins/m ²	25 mm, ASTM C423 and E795, Type A Mounting
Noise Reduction Coefficient	0.7	25 mm, ASTM C423 and E795, Type A Mounting
Smoke Emission at 4 Minutes	3	FAR 25.853(d), Appendix F, Part V
Toxic Gas Generation	130 ppm CO, 10 ppm NO _x	HCN, HF, HCl, or SO ₂ not detected, Boeing BSS 7239, flaming mode

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