

Hexcel® Fibrelam® 5000 Grade 1/3/3 Panels for Aircraft Flooring

Category : Other Engineering Material

Material Notes:

Fibrelam® 5000 panels are lightweight, high performance structural sandwich panels that consist of cross-plyed unidirectional fiberglass skins bonded to Aluminum honeycomb core. These panels exhibit superior mechanical and physical properties, are easy to install, and can be easily cut and machined on equipment normally found in airline maintenance shops. Fibrelam® 5000 panels are approved and qualified for use as flooring on Boeing aircraft. Information provided by Hexcel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hexcel-Fibrelam-5000-Grade-133-Panels-for-Aircraft-Flooring.php

Descriptive Properties	Value	Comments
Burn Length (mm)	15	BSS 7230; Flammability: 60 Second Vertical Ignition
Drip Extinguish Time (sec)	0	BSS 7230; Flammability: 60 Second Vertical Ignition
Glow Time (sec)	0	BSS 7230; Flammability: 45 Degree Test
In-Plane Shear (N/mm)	110	BMS 4-23
Insert Shear (N)	5690	BMS 4-23
Long Beam Bending Deflection (mm)	9.4	MIL-STD-401B; At 445N (100lb)
Long Beam Bending Load (N)	2560	BSS 7250 Humidity; Humidity Resistance Load (100% at 60°C (140°F) for 30 days)
	2960	MIL-STD-401B; Core Ribbon, Transverse
Panel Shear Strength (N)	5290	MIL-STD-401B 3 point loading; Core Ribbon, Transverse
Sandwich Peel (N/76 mm)	427	MIL-STD-401B 3 point loading; Core Ribbon, Transverse
Self-Extinguish Time (sec)	0.2	BSS 7230; Flammability: 60 Second Vertical Ignition
	0.5	BSS 7230; Flammability: 45 Degree Test
Stabilized Core Compression (N/mm ²)	11.3	MIL-STD-401B
Warping (mm/m), max	1.2	

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