SKYCORE ACN03C02001000

SKYCORE ACN03C0200 series aircraft interior panel material is a very lightweight construction of 2-ply 7781 style fiberglass-phenolic skins on 4 pound per cubic foot, 1/8 inch cell, [1]Nomex® honeycomb core, nominally 1 inch thick. This construction exhibits excellent strength to weight ratios, and fulfills the most stringent requirements of flammability, and smoke and toxic gas emission for transportation vehicle interiors.

QUALITY

Founded on years of experience, high quality materials, and a very controlled process, the color, texture, and integrity of this product is guaranteed.

PROPERTIES

SKYCORE ACN03C0200 is a flat, smooth, honeycomb core composite panel. Shapes are sawed or routed, ditched and potted to form corners, joined with mortise, tenon, and glue techniques, or bracket, screw, and potted insert techniques. Decorative laminates can be applied directly with hot vacuum or pressure techniques, or cold bonded with contact or pressure sensitive adhesives.

TYPICAL APPLICATIONS

- Bulkheads
- Ceiling Panels
- Closets
- Crew Rests
- Dado Panels
- Galley Walls
- Lavatory Walls
- Partitions
- Personal Service Units
- Stowage Bins

FORMAT

SKYCORE ACN03C0200 is available in sheets nominally 48, 54, and 60 inches (1219, 1372, and 1524 mm) wide ±0.5 inches (±12.7 mm), by 96 inches (2438 mm) long ±0.5 inches (±12.7 mm), and nominal thicknesses from 0.125 inches (3.18 mm) to 1.25 (31.8 mm) inches nominal. Other sizes available upon request.

[1] Nomex® is a registered trademark of DuPont

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CHARACTERISTIC	TEST METHOD	UNIT	TEST VALUE
THICKNESS	Caliper	inch / mm	1.0 / 25.4 Nominal
WEIGHT	ASTM D 461 (11)	lb/ft^2 / g/m^2	0.79 / 3859 Nominal
LONG BEAM FLEXURAL FAILURE LOAD	MIL-STD 401 W (Warp) Dir. / L (Ribbon) Dir.	lbf (per 3 inches)	725 / NA
LONG BEAM FLEXURAL STRENGTH [1]	MIL-STD 401 W (Warp) Dir. / L (Ribbon) Dir.	ksi	30.8 / NA
SHORT BEAM FLEXURAL FAILURE LOAD	MIL-STD 401 W (Warp) Dir. / L (Ribbon) Dir.	lbf (per 3 inches)	785 / NA
CORE SHEAR STRENGTH [2]	MIL-STD 401 W (Warp) Dir. / L (Ribbon) Dir.	psi	134 / NA
CLIMBING DRUM PEEL STRENGTH	MIL-STD 401 W (Warp) Dir. / L (Ribbon) Dir.	lbf (per 3 inches)	45 / NA
HEAT RELEASE	FAR 25.853 (d) FAR 25 App. F Pt. IV	kW/m^2 kW min/m^2 pass / fail	30 [3] 32 [3] pass [4]
SMOKE DENSITY	FAR 25.853 (d) FAR 25 App. F Pt. V ASTM E-662	Ds 4-minutes Ds maximum pass / fail	8 [3] 15 [3] pass [4]
TOXICITY	ATS 1000.001 ISSUE 5 / ABD 0031 HF, HCl, HCN, SO_2 / H_2S, NO / NO_2 , CO	pass / fail	pass [3] pass [4]
	Boeing D6-51377 Section 4.1.1 b. (1) CO, HCN, HF, HCl, SO_2, NOx	pass / fail	pass [3] pass [4]
FLAMMABILITY (60 sec)	FAR 25.853 (d) FAR 25 App. F Pt. I	pass / fail	pass [3] pass [4]

[1] Flexural Strength F_L = [P*(L-A)]/[4*(H-t)*B*t*1000], where F_L = Flexural Strength in Compression (ksi), P = Total Load at Failure (lbs), L = Support Span Length = 20 inches, A = Loading Span Length = 10 inches, t = Facesheet Thickness = 0.021 inches, H = Total Panel Thickness, B = Panel Width = 3 inches

[2] Core Shear Strength F_C = [P]/[2*(H-t)*B], where F_C = Core Shear Stress (psi), P = Total Load at Failure (lbs), t = Facesheet Thickness = 0.021 inches, H = Total Panel Thickness, B = Panel Width = 3 inches

[3] Bare panel

[4] Decorated panel with a standard AIRDEC F-Series or G-Series decorative laminate applied with pressure sensitive or heat activated adhesive

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