

BOLTARON® 6800E

FAR-Rated High Impact Resistant Sheet for Aircraft Interiors

Boltaron® 6800E sheet, extruded from a proprietary thermoplastic alloy, meets stringent FAR 25.850(a) flammability requirements for aircraft interiors. It also satisfies UL 94 V0 flame test criteria. Its resistance to impacts, stains and cleaning chemicals enhances service life of interior components, and in thermoforming, the sheet maintains uniform wall thickness even in deep draws.

(Note: For aircraft parts larger than 1 sq ft (305 sq mm) requiring an OSU 65/65 rating, please specify Boltaron® 9815E sheet)

PROPERTIES, RATINGS

PROPERTY	TEST METHOD	TYPICAL VALUES	
Specific Gravity	ASTM D792	1.300	
Tensile Strength	ASTM D638	6,000 psi	41.4 MPa
Flexural Strength	ASTM D790	9,000 psi	62.1 MPa
Flexural Modulus	ASTM D790	340,000 psi	2,344 MPa
Izod Impact (notched) @ 73 °F (23 °C)	ASTM D256	5 - 10 ft-lb/in.	267 - 534 J/m
Hardness Rockwell	ASTM D785	105	
Heat Deflection (annealed)	ASTM D648	162 psi	1.12 MPa
Radiant Panel Flame Spread Index .125 gauge	E162	<17	
Forming Temperature		335 - 365 °F	168 - 185 °C
Mold Shrinkage		0.5 - 0.7%	
FAR RATINGS			
Flammability			
Vertical burn, 60 sec	FAR 25.853(a)(i)	PASS	
Vertical burn, 12 sec	FAR 25.853(a)(ii)	PASS	

*Independent lab testing. All tests at 73 °F (23 °C) in dry conditions unless otherwise noted.

Advantages

- Meets FAR 25.853(a) and UL 94 V0 flame test criteria
- Impact and stain resistant
- Wall thickness integrity in deep draw forming
- Full range of colors
- Widest range of textures
- Lot-to-lot consistency

Proven Applications

- Instrument panel housings
- Class dividers
- Bulkhead laminates
- Galley and lavatory components
- Bull noses, gap covers, moldings
- Sidewall and kick panels
- Window reveals
- Seat parts, backs, arm rests
- Tray tables
- Passenger Service Units (PSUs)
- Light housings
- Video monitor shrouds
- Life vest shrouds
- Air ducts

Configurations

- Sheet sizes
 - Lengths to 120 in. (3,048 mm)
 - Widths to 60 in. (1,524 mm)
 - Gauges from 0.040 to 0.250 in. (1.02 - 6.35 mm)
- Custom sizes on request
- Colors, textures
 - Full range of colors
 - Industry's widest range of textures
 - 500 lb minimum

DISCLAIMER AND LIMITATION OF WARRANTY:

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