

Boltaron® 6800E

FAR-RATED HIGH IMPACT RESISTANT SHEET FOR AIRCRAFT INTERIORS

GENERAL
THERMOFORMING

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)

CHARACTERISTICS

- Full range of colors and textures
- Meets FAR 25.853(a) and UL 94 V-0 flame test criteria
- Maintains wall thickness in deep draw forming
- Impact and stain resistant
- Lot-to-lot consistency

USES

- Instrument panel housings, tray tables
- Class dividers, bulkhead laminates
- Galley and lavatory components
- Bull noses, gap covers and moldings
- Sidewall and kick panels, window reveals
- Seat parts (backs and arm rests)
- Passenger service units (PSUs)
- Video monitor shrouds, and air ducts
- Light housings, life vest shrouds

PERFORMANCE DETAILS

FAR RATINGS

FAR 25.853(a)(i) (Flammability) (Vertical burn, 60 sec) Pass

FAR 25.853(a)(ii) (Flammability) (Vertical burn, 12 sec) Pass

PROPERTIES

| | | |
|---|------------------------|--------------------|
| Specific Gravity (ASTM D792) | 1.30 | |
| 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 (ASTM D256) | 73 °F >7.5 ft-lb/in | 23 °C >400 J/m |
| Hardness Rockwell (ASTM D785) | 105 | |
| Heat Deflection Annealed (ASTM D648) | 162 °F @ 264 psi | 72 °C @1.82 MPa |
| Radiant Panel Flame Spread Index (E162) @0.125 in. gauge | <10 | |

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

SHEET SIZES

| | | |
|----------------|--------------------------|-------------------------|
| Lengths | to 120 in | 3,048 mm |
| Widths | to 60 in | 1,524 mm |
| Gauges | from 0.040 to 0.25 in | from 1.02 to 6.35 mm |

Custom Blank sizes, gauges on request

THERMOFORMING GUIDELINES

| | | |
|----------------------------|--------------|--------------|
| Forming Temperature | 335 - 365 °F | 168 - 185 °C |
|----------------------------|--------------|--------------|

6800E
HIGH IMPACT

DESIGN OPTIONS

- Colors** Unlimited
- Textures** Wide range available

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RELIABILITY MEETS INNOVATION

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