

Boltaron® 9850

LOW SMOKE AND HEAT RELEASING SHEET FOR AIRCRAFT INTERIORS

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S E R I E S

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
FAR 25.853(d)(Part IV)	(OSU Heat Release) (Peak - HRR, kW/m <65) (2 Min - HRR, kW/m ² <65)
FAR 25.853(d)(Part V)	(NBS Smoke) (Ds @ 1.5 min <100) (Ds @ 4 min <200)

PROPERTIES

Specific Gravity (ASTM D792)	1.490
Tensile Strength (ASTM D638)	5,500 psi (38 MPa)
Flexural Strength (ASTM D790)	8,700 psi (60 MPa)
Flexural Modulus (ASTM D790)	410,000 psi (2,827 MPa)
Izod Impact (notched) @ 73 °F (23 °C) (ASTM D256)	5.0 ft-lb/in (265 J/m)
Hardness Rockwell (ASTM D785)	107
Heat Deflection Annealed (ASTM D648)	170 °F @ 264 psi (77 °C @ 1.8 MPa)
Thermal Expansion (ASTM D696)	1.67 x 10 ⁻⁵ / °F (3 x 10 ⁻⁵ / °C)

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

QUALITY CHARACTERISTICS

- 150 smoke generation
- Lowest rate of heat release: 55/55
- Uniform high quality appearance
- Wall thickness integrity in deep draw forming
- Full range of colors, widest range of textures
- Lot-to-lot color consistency

USES

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

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 to 6.35 mm)
Custom	Blank sizes, gauges on request

THERMOFORMING PARAMETERS

Mold Shrinkage	0.5 - 0.7%
Forming Temperature	335 - 370 °F (168 - 188 °C)
Typical Heater Settings (Top)	30 - 50%
Typical Heater Settings (Bottom)	50 - 70%
Drying	Not required

9850
LOW SMOKE

DESIGN OPTIONS

Colors	Unlimited
Textures	Wide range available
Images	Impress Prints
Minimum	500 lb

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RELIABILITY MEETS INNOVATION