

Boltaron® 4800

LOW SMOKE AND FLAME RELATED SHEET FOR AIRCRAFT AND MASS TRANSIT INTERIORS

4 0 0 0
S E R I E S

CHARACTERISTICS

- Meets aircraft and mass transit low smoke and flame criteria
- Impact resistant
- Uniform surface appearance
- Wall thickness integrity in deep draw forming
- Infinite range of colors
- Industry's 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, Kick panels, Air ducts
- Window reveals, Seat parts
- Tray tables, Light housings
- Passenger Service Units (PSUs)
- Light housings, Life vest shrouds
- Video monitor shrouds

PERFORMANCE DETAILS

FAR RATINGS

FAR 25.853 (a) App.F, Part I,(a),1,(i)

(Flammability) (Vertical Burn, 60 sec) Pass

FAR 25.853 (a) App.F, Part I,(a),1,(ii)

(Flammability) (Vertical Burn, 12 sec) Pass

FAR 25.853 (d) App.F, Part V

(Smoke Density) Pass

PROPERTIES

Specific Gravity (ASTM D792)	1.435	
Tensile Strength (ASTM D638)	4,900-5,200 psi	34-36 MPa
Flexural Strength (ASTM D790)	7,800-8,400 psi	54-58 MPa
Flexural Modulus (ASTM D790)	3-3.3 x 10 ⁵ psi	2,068-2,275 MPa
Izod Impact Notched (ASTM D256)	73 °F 3-5 ft-lb/in	23 °C 160-267 J/m
Hardness Rockwell (ASTM D785)	102 - 104	
Heat Deflection Annealed (ASTM D648)	165 -168 °F @264 psi	74 - 76 °C @1.8 MPa
Gardner Drop (ASTM D2039)	>320	

*Independent lab tests at 73°F (22.8°C) in dry conditions unless otherwise noted.

MASS TRANSIT RATINGS

Radiant panel flame spread index (ASTM E162)	<10
NBS smoke (ASTM E662)	0.125 in. 3.18 mm
Smoldering mode	<100 DS @ 90 sec <200 DS @ 4 min
Flame mode	<100 DS @ 90 sec <200 DS @ 4 min
Line "M" (P92-507)	M1
MVSS 302	Pass

FLAMMABILITY

UL 94	V-0
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*Tested at .040 inches

SHEET SIZES

Lengths	to 120 in	3,048 mm
Widths	to 60 in	1,524 mm
Gauges	from 0.040 to 0.250 in	from 1.02 to 6.35 mm

Custom Blank sizes, gauges on request

THERMOFORMING GUIDELINES

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

Attention: Avoid using cleaners containing quaternary ammonium compounds. In some cases, disinfectants containing quaternary ammonium compounds (QACs) could cause discoloration when left on at elevated temperatures and should be avoided for use on this grade of Boltaron material. For a full cleaning guide, visit www.boltaron.com/cleaning-and-disinfecting.

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4800
LOW SMOKE

DESIGN OPTIONS

Colors Unlimited
Textures Wide range available
Minimum 500 lb

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RELIABILITY MEETS INNOVATION