

Boltaron® 4800

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

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

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)	5,700 psi	39 MPa
Flexural Strength (ASTM D790)	8,500 psi	59 MPa
Flexural Modulus (ASTM D790)	3.8 x 10 ⁵ psi	2,620 MPa
Izod Impact Notched (ASTM D256)	73 °F 3 ft-lb/in	23 °C 160 J/m
Heat Deflection Annealed (ASTM D648)	157 °F @264 psi	69.4 °C @1.8 MPa

*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: Use caution when using cleaners containing quaternary ammonium compounds. Follow all label instructions and remove cleaner residues completely after cleaning. Avoid using quaternary ammonium compounds on parts exposed to elevated temperatures. For a full cleaning guide, visit www.boltaron.com/cleaning-and-disinfecting.

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S E R I E S

4800 LOW SMOKE

DESIGN OPTIONS

- Colors Unlimited
Textures Wide range available



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RELIABILITY MEETS INNOVATION