

Boltaron® 4800N

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 1,(a),1,(i)	(Flammability) (Vertical Burn, 60 sec) Pass
FAR 25.853 (a) App. F, Part 1,(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)	1.38	
Tensile Strength @ Yield (ASTM D638)	6,000 psi	41 MPa
Tensile Modulus (ASTM D638)	370,000 psi	2,551 MPa
Flexural Strength @ Yield (ASTM D790)	9,000 psi	62 MPa
Flexural Modulus (ASTM D790)	330,000 psi	2,275 MPa
Izod Impact Notched (ASTM D256)	73 °F 5 ft-lb/in	23 °C 267 J/m
Hardness Rockwell R (ASTM D785)	106	
Heat Deflection Annealed (ASTM D648)	155°F @264 psi	68.5 °C @1.8 MPa
Water Absorption (D570)	0.031%	

*Independent lab tests at 73°F (22.8°C) in dry conditions unless otherwise noted. All tested @ .125 inches

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
FMVSS	Pass	

FLAMMABILITY

UL 94	V-0
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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	

4800N
LOW SMOKE

DESIGN OPTIONS

- Colors** Unlimited
- Textures** Wide range available
- Minimum** 500 lb

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RELIABILITY MEETS INNOVATION

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