

Boltaron® 4800

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

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S E R I E S

PERFORMANCE DETAILS

FAR RATINGS

FAR 25.853(a)(i) App.F (part I) (Flammability) (Vertical burn, 60 sec) Pass
FAR 25.853(a)(ii) App.F (part I) (Flammability) (Vertical burn, 12 sec) Pass
FAR 25.853(d) App.F (part V) (Smoke Density) Pass

MASS TRANSIT RATINGS

Radiant Panel Flame Spread Index (ASTM E162) (0.125 in/3.18 mm gauge) <10
NBS Smoke (ASTM E662)(Smoldering Mode) (<100 DS @ 90 sec.) (<200 DS @ 4 sec)
NBS Smoke (ASTM E662) (Flame Mode) (<100 DS @ 90 sec.) (<200 DS @ 4 sec)
Line "M" (P92-507) M1
MVSS 302 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) 300,000 - 330,000 psi (2,068 - 2,275 MPa)
Izod Impact (notched) @ 73 °F (23 °C) (ASTM D256) 3 - 5 ft-lb/in (160 - 267 J/m)
Gardner Drop (ASTM D2039) >320
Hardness Rockwell (ASTM D785) 102 - 104
Heat Deflection Annealed (ASTM D648) 165 - 168 °F @ 264 psi (74 - 76 °C @ 1.8 MPa)
Flammability (UL 94) V-0

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

QUALITY CHARACTERISTICS

Izod impact 18 ft-lb/in (953 J/m)
Uniform high quality appearance
Wall thickness integrity in deep draw forming
Low minimums
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 part

SHEET SIZES

Widths to 120 in (3,048 mm)
Lengths to 60 in (1,524 mm)
Gauges 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

DESIGN OPTIONS

Colors Unlimited
Textures Wide range available
Minimum 500 lb

4800 LOW SMOKE

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www.boltaron.com | +1 800 342 7444

RELIABILITY MEETS INNOVATION