

Boltaron® 9850

LOW SMOKE AND HEAT RELEASE SHEET FOR AIRCRAFT INTERIORS

9 0 0 0
S E R I E S

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, bull noses, gap covers
- Galley and lavatory components, light housings
- Moldings, sidewall and kick panels, air ducts
- Window reveals, seat parts, backs, arm rests
- Tray tables, passenger service units (PSUs)

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 ² <55) (2 Min - HRR, kW min/m ² <55)
FAR 25.853(d)(Part V)	(NBS Smoke) (Ds Max <150)

PROPERTIES

Specific Gravity (ASTM D792)	1.49	
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 (ASTM D256)	73 °F 5.0 ft-lb/in	23 °C 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.

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.

DISCLAIMER AND LIMITATION OF WARRANTY: All information contained herein is believed by SIMONA BOLTARON Inc. to be reliable. Typical properties are based on laboratory tests conducted on material samples in accordance with standard test methodology. SIMONA BOLTARON Inc. makes no express or implied warranty that its products will perform in accordance with the data in all conditions and circumstances. To determine suitability for use, users must test applications under actual operating conditions. As a result, ALL EXPRESS OR IMPLIED WARRANTIES IN CONNECTION WITH SIMONA BOLTARON Inc. PRODUCTS INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. RI 8.13.20

9850
LOW SMOKE & HR

DESIGN OPTIONS

Colors	Unlimited
Textures	Extruded Only
Minimum	500 lb

SIMONA
boltaron

www.boltaron.com | +1 800 342 7444

RELIABILITY MEETS INNOVATION