

9815F FAR Rated High Impact, Thin-Gauge Sheet

A companion product to Boltaron 9815E heavy gauge high-impact 65/65-rated sheet, Boltaron, 9815F film/sheet is offered in gauges from .010 to .035 in. (.25 to 89 mm) for thermoforming and two- and three-dimensional laminating of aircraft interior components

Identical to Boltaron 9815E (extruded) heavy-gauge sheet in formulation, properties, fire ratings, lengths, widths and unlimited color availability, Boltaron 9815F (calendered) film/sheet is offered in gauges from .010 to .035 in. (25 to 89 mm) in two surface textures that match, and one that complements, 9815E.



Boltaron 9815F meets stringent FAA requirements for flammability, smoke generation and heat release while exhibiting exceptional physical properties.

It offers Izod Impact resistance of 5.0 ft lbs/in. (265 J/m)—higher than competitive 65/65-compliant sheets rated at 3.0 ft lbs/in. (159 J/m)—significantly improving the durability of thermoformed and laminated aircraft interior components.

It also offers other exceptional physical properties, extreme formability and consistent surface quality free of inclusions.

As a result, Boltaron 9815F is specified by the world's leading commercial, military and private aircraft and helicopter manufacturers, carriers and interior refurbishing contractors, for thermoformed, laminated and fabricated interior components of unequalled durability and appearance.

APPLICATIONS

- Class dividers
- Dashboard enclosures
- Galley components
- Lavatory components
- Bull noses
- Video screen bezels
- Personal service units (PSUs)
- Gap covers
- Seat parts
- Sidewall panels
- Tray tables
- Window shades
- Air ducts
- Bulkhead laminates
- Light housings
- Window reveals
- Moldings

FEATURES

- Greater impact resistance than competitive 65/65-compliant PVC/Acrylic film/sheet: 5.0 ft lbs/in. (265 J/m) versus 3.0 ft lbs/in. (159 J/m)
- Inclusion-free surface quality
- Three surface textures: Haircell (HC) and Sand (SA) match 9815E textures—Matte/Matte complements 9815 Coarse Matte (CM) texture
- Unlimited colors with low minimums, no premiums and fast turnaround. Lot-to-lot color consistency allows undetectable field replacements
- Suitable for laminating to a variety of flat or three-dimensional metal, FRP and thermo-plastic substrates
- Readily vacuum- or pressure-formed: allows the sheet to draw readily to the mold, even into deep recesses and sharp corners, maintaining uniform wall thicknesses
- Gauges from .010 to .035 in. (.25 to 89 mm), widths to 48 in. (1219 mm) and lengths to 120 in. (3048 mm) with custom sizes on request



Boltaron 9815F sheet is offered in unlimited colors, and three textures: Haircell (HC), Sand (SA) and Matte/Matte (MM)





PROPERTIES/FAR RATINGS

PROPERTY	TEST METHOD	TYPICAL VALUES
Specific Gravity	ASTM D-792	1.49
Tensile Strength	ASTM D-638	5,500 PSI / 38 Mpa
Flexural Strength	ASTM D-790	8,700 PSI / 60 Mpa
Flexural Modulus	ASTM D-790	410,000 PSI / 2827 Mpa
Izod Impact (@ 73°F / 23°C)	ASTM D-256	5.0 ft lbs/in. 265 J/m
Hardness Rockwell	ASTM D-785	107
Heat Deflection (annealed)	ASTM D-648	170° F @ 264 PSI 77°C @ 1.8 Mpa
Flammability	FAR 25.853 A1,(i) FAR 25.853 A1,(ii)	PASS ALL PASS ALL
Heat Release Peak - Hrr, kW/m 2 Min - Hrr, kW-min/m	FAR 25.853 A1 F, Part IV -	<65 <65
NBS Smoke Ds @ 1.5 Min Ds @ 4 Min	F814-84(b)	<100 <200
Thermal Expansion	ASTM D-696	1.67 X 10 ⁻⁵ / °F 3 X 10 ⁻⁵ / °C

THERMOFORMING PARAMETERS

Mold Shrinkage	0.5 - 0.7% in. / in.
Forming Temperature	335 - 370°F / 168 - 185°C
Typical Heater Settings	30 - 50% Top, 50 - 70% Bottom
Drying	Not required

OTHER BOLTARON FAR RATED GRADES

- Boltaron 4205
- Boltaron 4300
- Boltaron 4330
- Boltaron 4350
- Boltaron 4800
- Boltaron 6530
- Boltaron 6540
- Boltaron 6800
- Boltaron 6800E
- Boltaron 9200/9200C
- Boltaron 9230/9230C
- Boltaron 9250/9250C
- Boltaron 9815
- Boltaron 9815E
- Boltaron 9815M
- Boltaron 9815S
- Boltaron 9816
- Boltaron 9915

Take the compromise out of FAR compliance with Boltaron 9815F

BOLTARON

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LIMITATION OF WARRANTY

The application suggestions, specifications and other data described here are based upon experience and information that is believed, by BPP, to be reliable. However, BPP makes no express or implied warranty that BOLTARON 9815F will perform in accordance with such specifications in any particular circumstance. Therefore, ALL EXPRESS OR IMPLIED WARRANTIES IN CONNECTION WITH BOLTARON 9815F, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY DISCLAIMED. The prospective user should determine the suitability of BOLTARON 9815F and the application suggestions before actual application.