

## 9815E FAR Rated High Impact Sheet

**66% Greater impact resistance than competitive 65/65-rated PVC/Acrylic sheets, inclusion-free quality and unlimited textures/colors**

Boltaron 9815E is a proprietary, fire retardant, extruded PVC/Acrylic alloy for aircraft interior components that 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)—over 66% higher than competitive 65/65-compliant sheets rated at 3.0 ft lbs/in (159 J/m)—significantly improving the durability of



thermoformed aircraft interior components.

It also offers other exceptional physical properties, extreme formability and consistent surface quality, and is available in an unlimited range of colors and textures.

As a result, Boltaron 9815E is specified by the world's leading commercial, military and private aircraft and helicopter manufacturers, carriers and interior refurbishing contractors, for thermoformed, fabricated and machined 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

- 66% Greater impact resistance than competitive 65/65-compliant PVC/Acrylic sheets: 5.0 ft lbs/in (265 J/m) versus 3.0 ft lbs/in (159 J/m)
- Inclusion-free surface quality
- Unlimited surface textures with low minimums, no premiums and fast turnaround
- Unlimited colors with low minimums, no premiums and fast turnaround. Lot-to-lot color consistency allows undetectable field replacements
- Extreme formability: allows the sheet to draw readily to the mold, even into deep recesses and sharp corners, maintaining uniform wall thicknesses
- Gauges from 0.40 to .250 in. (1.02 to 6.35 mm, widths to 48 in. (1219 mm) and lengths to 120 in. (3048 mm) with custom sizes on request



Boltaron 9815E sheet is offered in unlimited colors, and unlimited textures including Felt (FT), Haircell (HC), Mesa (MS), Sand (SA), Suede (SD), Velvet (VT), Levant (LT) and Coarse Matte (CM)





## 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 <sup>-5</sup> / ° F 3 X 10 <sup>-5</sup> / ° C

## THERMOFORMING PARAMETERS

Mold Shrinkage	0.005 - 0.007 in./in.
Forming Temperature	335 - 370°F / 168 - 185°C
Typical Heater Settings	30 - 50% Top, 50 - 70% Bottom
Drying	Not required

**Take the compromise out of FAR compliance with Boltaron 9815E**



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### 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 9815F
- Boltaron 9815M
- Boltaron 9816
- Boltaron 9915