

BOLTARON® 9916

Translucent FAR-Rated Fully-Compliant Parts

Custom-routed to specifications in a variety of textures for aircraft interior components. Provides exceptional visual appeal and meets FAA fire and low-toxicity guidelines.



Boltaron® 9916 is a tinted sheet material that meets FAR 25.853(a) for flammability and FAR 25.853(d) for rate of heat release and smoke density, while meeting ABD0031 (Airbus) and BSS 7239 (Boeing) toxicity specifications. In class dividers and other partitions, the material's light transmitting properties provide partial privacy while creating an attractive, open environment.

A blue tinted material, it is offered in finished parts that are CNC-routed to customer specifications. Surface finish options, available on one or two sides, include Suede, Stipple, Falmouth, and a range of custom finishes from gloss to matte.

Boltaron 9916's notched Izod impact resistance of 5.3 ft-lb/in. (284 J/m) and its rigidity make it ideal for use in large panels and in damage-prone applications in aircraft interiors. The material can also be heat welded, adhesive bonded and mechanically fastened.

The Boltaron impact resistant FAR 25.853(d) rated product family also includes 9815E extruded sheet, 9815M in metallic finishes, 9815D with unlimited decorative patterns; 9815P in the widest range of textures and 9815F film and thin-gauge sheet for two- and three-dimensional laminating, and Boltaron® 9850 with a 50/50 rate of heat release.

Advantages

- Meets FAA fire ratings and low-toxicity guidelines of Airbus and Boeing
- High impact strength and rigidity
- Provides partial privacy with good light transmittance
- Combines partial privacy and an open environment

Applications

- Class dividers
- Partitions
- Light diffusion panels
- Storage area doors
- Equipment covers

Configurations

- Sizes: routed panels
 - Routed to user specifications
 - Gauges: 0.079, 0.118, 0.157, 0.197, 0.236 in. (2, 3, 4, 5, 6 mm)
- Surface finishes – one or both sides
 - Suede (SD)
 - Stipple (SI)
 - Falmouth (FM)
 - Custom gloss and matte available on request
- Color
 - Blue tint

PROPERTIES, RATINGS

PROPERTY	TEST METHOD*	TYPICAL VALUES	
MECHANICAL			
Specific Gravity	ASTM D792	1.310	
Tensile Strength at Yield, 50mm/min	ISO 527	10,878 psi	75 MPa
Tensile Strain at Yield, 50mm/min	ISO 527	6.6%	
Tensile Strain at Break, 50mm/min	ISO 527	101%	
Tensile Modulus, 1mm/min	ISO 527	362,594 psi	2,500 MPa
Flexural Stress at Yield, 2mm/min	ISO 178	15,084 psi	104 MPa
Flexural Modulus, 2mm/min	ISO 178	337,938 psi	2,330 MPa
Izod Impact (notched) @ 73°F (23°C)	ISO 180/1A	5.3 ft-lb/in.	284 J/m
Ductility	ASTM D256	50%	
Instrumented Impact Total Energy, 23°C	ASTM D3763	69.3 ft-lb	94 J
Water absorption, equilibrium	ISO 62	0.24%	
Rockwell Hardness	ASTM D785	M61, R123	
THERMAL			
Vicat softening temperature, B/120	ASTM D1525	280°F	138°C
Heat deflection temperature, 1.82 MPa	ASTM D648	25.7°F	125°C
Vertical burn, 60 sec	FAR 25.583(a)+App.F	Pass	
Smoke density	ABD0031	Pass	
Toxicity	ABD0031, BSS 7239	Pass	
OSU total heat release, 2 min	FAR 25.853(d) App.F	Pass <65	
OSU peak heat release rate, 5 min	FAR 25.853(d) App.F	Pass <65	

*All tests at 73°F (22.8°C) in dry conditions unless otherwise noted.

BOLTARON® FAR RATED SHEET PRODUCTS

Impact resistant FAR 25.853(d) sheet grades - opaque

- Boltaron® 9815E: Extruded, full range of colors, textures
- Boltaron® 9815D: Decorative patterns, textures
- Boltaron® 9815M: Metallic surface finish
- Boltaron® 9815F: Film, thin-gauge sheet
- Boltaron® 9815P: Custom textures
- Boltaron® 9850: 50/50 RHR

Enhanced performance grades

- Boltaron® 4205: Superior temperature resistance
- Boltaron® 4330: Superior impact resistance
- Boltaron® 4800: FAR smoke emissions & flame rated

Translucent grades

- Boltaron® 4350: Custom routed parts
- Boltaron® 9816: Custom routed parts; FAR 25.853(a),(d)
- Boltaron® 9916: Custom routed parts, fully compliant

Window shade grades

- Boltaron® 9200/9200C
- Boltaron® 9250/9250C: Higher temperature

Additional Boltaron FAR-rated grades

- Boltaron® 6800E

SIMONA offers the widest product range of PVC sheet and rod – FM 4910 rated sheet – chemical resistant materials from PVC, PP and PE to fluoropolymers – orthotics and prosthetics sheet – Boltaron aircraft sheet – plus proven products for boat building, outdoor furniture and many other industries.

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