

Boltaron® 9815 with a Pearlescent Effect

THERMOFORMABLE FAR-RATED SHEET FOR AIRCRAFT INTERIORS

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S E R I E S

This material upgrade offers more style and designer appeal than standard color sheet. With an iridescent, true pearl pigment integrated through extrusion, the effect is noticeable throughout the sheet. The luster is even further enhanced after thermoforming. It can be color matched to an unlimited range of pearlescent hues, from natural to synthetic tones, and be customized with a wide range of textures.

CHARACTERISTICS

- Has a deep, rich pearlescent effect
- Maintains wall thickness integrity in deep draw thermoforming
- Can be color matched to any pearlescent hue
- Industry's widest range of pressed and extruded textures
- Low minimum order requirements

USES

- Ideal for 2D or 3D aircraft interior parts
- Seat backs and tray tables
- Decorative trim and finish

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 <65) (2 Min - HRR, kW min/m ² <65)
FAR 25.853(d)(Part V)	(NBS Smoke) (Ds Max <200)

PROPERTIES

Specific Gravity (ASTM D792)	1.57	
Tensile Strength @ yield (ASTM D638)	5,840 psi	40.3 MPa
Flexural Strength (ASTM D790)	10,236 psi	70.6 MPa
Flexural Modulus @ yield (ASTM D790)	574,000 psi	3,958 MPa
Izod Impact Notched (ASTM D256)	73 °F 2.0 ft-lb/in	23 °C 106.8J/m
Rockwell Hardness R-scale (ASTM D785)	102	
Heat Deflection Annealed (ASTM D648)	165 °F @264 psi	73.8 °C @1.8 MPa
Thermal Expansion (ASTM D696)	2.7 x 10 ⁻⁵ /°F	4.9 x 10 ⁻⁵ /°C

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

SHEET SIZES

	Extruded Texture		Pressed Texture	
Lengths	to 120 in	3,048 mm	99 or 122 in	2,514 or 3,099 mm
Widths	to 60 in	1,524 mm	50 in	1,270 mm
Gauges	from 0.028 to 0.250 in	from 0.71 to 6.35 mm	from 0.040 to 0.250 in	from 1.02 to 6.35 mm

Custom Blank sizes, gauges on request

THERMOFORMING GUIDELINES

Forming Temperature	335 - 370°F	168 - 188°C
Typical Heater Settings (Top)	30 - 50%	
Typical Heater Settings (Bottom)	50 - 70%	
Drying	Not required	

Attention: Use caution when using cleaners containing quaternary ammonium compounds. Follow all label instructions and remove cleaner residues completely after cleaning. Avoid using quaternary ammonium compounds on parts exposed to elevated temperatures. For a full cleaning guide, visit www.boltaron.com/cleaning-and-disinfecting.

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DESIGN OPTIONS

- Colors** Unlimited
- Textures** Wide range available
- Notes** Choose a high gloss texture to enhance the appearance of the pearlescent effect
- Effects** True Pearl

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RELIABILITY MEETS INNOVATION