

# Boltaron 9815P

Polyvinyl Chloride Alloy

Boltaron Performance Products

Message:

Boltaron 9815P is a proprietary, fire retardant, extruded PVC/Acrylic alloy that is offered in unlimited surface textures and unlimited colors, providing designers with new ways to enhance the appearance of aircraft interior components.

Because it is press laminated (not extruded), unlimited custom textures are available economically in low minimums with fast turnarounds, allowing the production of prototypes and limited runs prior to full-scale production.

In addition, the sheet exhibits exceptional physical properties, most notably Izod impact resistance of 5.0 ft lbs/in (265 J/m), significantly improving the durability of thermoformed aircraft interior components, while meeting stringent FAA requirements for flammability, smoke generation and heat release. It also offers extreme formability and consistent surface quality, free of pits or inclusions.

Boltaron 9815P is one of the latest additions to Boltaron's 9815 family of aircraft-rated sheet products 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.

General Information			
Features	Low smoke		
	stain resistance		
	Impact resistance, high		
	Good wear resistance		
	Good chemical resistance		
	Flame retardancy		
Uses	Airplane trim		
	Aerospace applications		
Agency Ratings	FAR 65/65		
Appearance	Available colors		
Forms	Sheet		
Processing Method	Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.50 - 0.70	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	107		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	37.9	MPa	ASTM D638
Flexural Modulus	2830	MPa	ASTM D790
Flexural Strength	60.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (23°C)	270	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	76.7	°C	ASTM D648
CLTE - Flow	3.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
NBS Smoke Density			ASTM F814
Ds, 1.5 Min			ASTM F814
Ds, 4 Min			ASTM F814
exothermic <sup>1</sup>			FAR 25.853
2 Min		kW · min/m <sup>2</sup>	FAR 25.853
Peak		kW/m <sup>2</sup>	FAR 25.853
Flammability			FAR 25.853
-- <sup>2</sup>	Pass All		FAR 25.853
-- <sup>3</sup>	Pass All		FAR 25.853

#### Additional Information

Thermoforming Parameters:

Mold Shrinkage: 0.005 to 0.007 in/in

Forming Temperature: 335 to 370°F

Typical Heater Settings, Top: 30 to 50%

Typical Heater Settings, Bottom: 50 to 70%

Drying: Not Required

#### NOTE

1. A1 F, Part IV
2. A1, (i)
3. A1, (ii)

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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