Boltaron 9815D

Polyvinyl Chloride Alloy

Boltaron Performance Products

Message:

General Information

Boltaron 9815D is a proprietary, fire retardant, extruded PVC/Acrylic alloy that is offered in unlimited custom patterns, providing designers with unlimited ways to enhance the appearance of aircraft interior components.

In addition, unlimited patterns are available economically in low minimums with fast turnarounds, allowing the production of prototypes and limited runs prior to full-scale production.

Boltaron 9815D also exhibits exceptional physical properties, including 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 9815D 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.

Features	Durable		
	Flame Retardant		
	High Impact Resistance		
	Low Smoke Emission		
Uses	Aerospace Applications		
	Aircraft Interiors		
Agency Ratings	FAR 65/65		
Appearance	Colors Available		
Forms	Sheet		
Processing Method	Extrusion		
	Machining		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Physical Specific Gravity	Nominal Value	Unit g/cm³	Test Method ASTM D792
Specific Gravity	1.49	g/cm³	
Specific Gravity Molding Shrinkage - Flow	1.49 0.50 to 0.70	g/cm³ %	ASTM D792
Specific Gravity Molding Shrinkage - Flow Hardness	1.49 0.50 to 0.70 Nominal Value	g/cm³ %	ASTM D792 Test Method
Specific Gravity Molding Shrinkage - Flow Hardness Rockwell Hardness	1.49 0.50 to 0.70 Nominal Value 107	g/cm³ % Unit	ASTM D792 Test Method ASTM D785
Specific Gravity Molding Shrinkage - Flow Hardness Rockwell Hardness Mechanical	1.49 0.50 to 0.70 Nominal Value 107 Nominal Value	g/cm³ % Unit Unit	Test Method ASTM D785 Test Method
Specific Gravity Molding Shrinkage - Flow Hardness Rockwell Hardness Mechanical Tensile Strength	1.49 0.50 to 0.70 Nominal Value 107 Nominal Value 37.9	g/cm³ % Unit Unit MPa	ASTM D792 Test Method ASTM D785 Test Method ASTM D638
Specific Gravity Molding Shrinkage - Flow Hardness Rockwell Hardness Mechanical Tensile Strength Flexural Modulus	1.49 0.50 to 0.70 Nominal Value 107 Nominal Value 37.9 2830	g/cm³ % Unit Unit MPa MPa	ASTM D792 Test Method ASTM D785 Test Method ASTM D638 ASTM D790
Specific Gravity Molding Shrinkage - Flow Hardness Rockwell Hardness Mechanical Tensile Strength Flexural Modulus Flexural Strength	1.49 0.50 to 0.70 Nominal Value 107 Nominal Value 37.9 2830 60.0	g/cm³ % Unit Unit MPa MPa MPa	ASTM D792 Test Method ASTM D785 Test Method ASTM D638 ASTM D790 ASTM D790

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
Flammability	Pass		FAR 25.853
Heat Release			FAR 25.853
2 min	< 65	kW·min/m²	
Peak	< 65	kW/m²	
Ds			ASTM F814
1.5 min	< 100		
4 min	< 200		
Forming Temperature	168 to 188	°C	

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