

Boltaron 9816

Rigid Polyvinyl Chloride

Boltaron Performance Products

Message:

Boltaron 9816 is a clear blue tint proprietary rigid sheet developed specifically for aircraft interior applications that are required to meet the stringent FAA requirements for low heat release and smoke density as set forth in FAR 25.853 paragraphs (a) and (d). Boltaron 9816 offers excellent impact strength, abrasion resistance, stain and chemical resistance, and thermoformability.

Gauges: .040 to .125

Standard Sizes: 50 x 99"

Textures:

Suede/Suede (SD/SD)

Mirror/Mirror (MR/MR)

General Information			
Features	Good Abrasion Resistance		
	Good Chemical Resistance		
	High Impact Resistance		
	Low Smoke Emission		
	Stain Resistant		
Uses	Aircraft Interiors		
Agency Ratings	FAR 25.853		
Appearance	Clear - Blue Tint		
Forms	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3310	MPa	ASTM D638
Tensile Strength (Yield)	62.1	MPa	ASTM D638
Tensile Elongation (Yield)	3.8	%	ASTM D638
Flexural Modulus	3100	MPa	ASTM D790
Flexural Strength (Yield)	103	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	27 to 53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	74.4	°C	
1.8 MPa, Annealed	80.6	°C	
Vicat Softening Temperature	95.5	°C	ASTM D1525

Flammability	Nominal Value	Unit	Test Method
	12.0		
FAA Flammability ¹	60.0	sec	FAR 25.853
Heat Release ²			FAR 25.853
2 Min-Hrr	< 65		
Peak-Hrr	< 65	kW/m ²	
NBS Smoke Density			
-- ³	< 100		
-- ⁴	< 200		FAR 25.853

NOTE

1. Pass
2. A1 F, Part IV
3. 1.5 Min, F814-84(b)
4. 4 Min, F814-84(b)

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