

Boltaron 9815M

Acrylic (PMMA) + PVC

Boltaron Performance Products

Message:

Greater impact resistance than competitive 65/65-rated PVC/Acrylic metallic sheets, plus integral color for unsurpassed scratch resistance Boltaron 9815M is a proprietary, fire retardant, extruded PVC/Acrylic alloy for aircraft interior components that meets stringent FAA requirements for flammability, smoke generation and heat release while exhibiting exceptional physical properties. It offers Izod Impact resistance of 5.0 ft lbs/in. (265 J/m)- higher than competitive 65/65- compliant sheets rated at 3.0 ft lbs/in. (159 J/m)- as well as extreme formability, consistent surface quality, and an unlimited range of colors. And unlike FAR 25.853 (d) rated sheet that is reverse-printed with metallic ink on clear cap film laminated to dissimilar substrate material, Boltaron 9815M is comprised of a cap film with integral metallic coloration, permanently fused to a matching "9815-grade" substrate of a complementary solid color, preventing de-lamination and offering unsurpassed scratch resistance. Since the 9815M monolithic cap film is a "metallized" version of Boltaron's 9815 solid color substrate, metallic color selection is unlimited. Boltaron 9815M is 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 metallic appearance.

General Information			
Features	Durable		
	Flame Retardant		
	High Impact Resistance		
	Low Smoke Emission		
Uses	Aerospace Applications		
	Aircraft Interiors		
Agency Ratings	FAA Unspecified Rating		
	FAR 25.853		
Appearance	Colors Available		
Forms	Sheet		
Processing Method	Extrusion		
	Machining		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.57	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	107		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	37.9	MPa	ASTM D638
Flexural Modulus	2830	MPa	ASTM D790
Flexural Strength (Yield)	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
Flammability	Pass		FAR 25.853
Heat Release			FAR 25.853
2 min	< 65	kW·min/m ²	
Peak	< 65	kW/m ²	
Ds			ASTM F814
1.5 min	< 100		
4 min	< 200		
Forming Temperature	168 to 188	°C	

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