

# Boltaron 4335

Acrylic (PMMA) + PVC

Boltaron Performance Products

## Message:

High impact, UL 94 V-0 rated PVC/Acrylic sheet delivering exceptional impact resistance, inclusion-free surface quality, unlimited textures/colors and extreme formability

Boltaron 4335 is a proprietary, fire retardant, extruded PVC/Acrylic alloy offering extreme durability, chemical resistance, and a UL 94 V-0 rating while exhibiting exceptional physical properties.

It offers Izod Impact resistance of 18 ft lbs/in (954 J/m), significantly improving the durability of thermoformed components versus FR-ABS and other competitive sheet.

In addition, Boltaron 4335 is non-hygroscopic, eliminating the time and costs associated with pre-drying other thermoplastics.

It also offers other exceptional physical properties, extreme formability and consistent surface quality, and is available in unlimited custom colors with low minimums and fast turnarounds.

As a result, leading thermoformers and original equipment manufacturers seeking an uncompromising combination of formability, durability, chemical resistance, and regulatory compliance specify Boltaron 4335 for thermoformed and fabricated housings, enclosures, and displays.

General Information			
Features	Rigidity, high		
	Impact resistance, high		
	Good wear resistance		
	Good chemical resistance		
	Flame retardancy		
Uses	Shell		
	Medical/nursing supplies		
UL File Number	E54688		
Appearance	Available colors		
Forms	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	41.4	MPa	ASTM D638
Flexural Modulus	2280	MPa	ASTM D790
Flexural Strength (Yield)	63.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	960	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	71.7	°C	ASTM D648
Flammability	Nominal Value		Test Method

Flame Rating		UL 94
--	V-0	UL 94
	V-0	
1.20 mm	5VB	UL 94
	V-0	
3.00 mm	5VA	UL 94

Additional Information

Thermoforming Parameters:  
Mold Shrinkage: 0.5 to 0.7 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

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