

## 4332 *Ultra-high Impact, Fire Rated, PVC/Acrylic Sheet*

**Impact resistance of 20 ft lbs/in (1060 J/m) and other outstanding properties make Boltaron 4332 the ultimate Acrylic/PVC alloy for your most demanding applications**

Boltaron 4332 sheet is a proprietary, fire retardant, PVC/Acrylic alloy that offers outstanding physical properties, making it the ideal material from which to thermoform and fabricate parts subjected to high impact, abrasion, harsh chemicals and/or temperature extremes.

With an Izod impact rating of 20 ft lbs/in (1060 J/m) Boltaron 4332 is among the most impact resistant PVC/Acrylic alloys ever produced.

It also exhibits extreme resistance to heat deformation and cold weather cracking, and is highly resistant to caustic and



acidic chemicals spanning the entire pH range, in addition to offering greater abrasion resistance than stainless steel.

At the same time, Boltaron 4332 is non-hygroscopic, eliminating the time and cost associated with pre-drying other thermoplastics, and is readily thermoformed, yielding uniform wall thickness in deep recesses and on sharp outside corners.

It is also readily sawn, drilled, tapped, routed and otherwise machined using conventional tools,

and can be brake formed (thinner gauges), heat welded, adhesive bonded and mechanically fastened, allowing rapid fabrication of a broad range of high-integrity parts and assemblies.

Easy to use but difficult to damage, Boltaron 4332 eliminates the compromise associated with lesser PVC/acrylic alloys, FR ABS, and other fire rated thermoplastics, meeting and exceeding the most demanding requirements of formers, fabricators and OEMs alike.

### APPLICATIONS

- Equipment housings
- Gun holsters
- Knife sheaths
- Store fixtures
- Push plates and kick plates
- Other flat and formed components requiring extreme durability

### FEATURES

- Izod Impact resistance of 20 ft lbs/in (1060 J/m)
- UL 94 V-0 fire rating
- Free of pits, voids, inclusions
- Unlimited custom colors
- Six standard surface textures plus unlimited custom textures
- Extreme formability with uniform wall thicknesses
- Gauges from .028 to .250 in. (0.71 to 6.35 mm)
- Lengths to 120 in. (3048 mm), widths to 60 in. (1524 mm)
- Custom blank sizes available
- Extreme chemical and abrasion resistance
- Readily machined using conventional tools
- Can be heat welded, adhesive bonded, mechanically fastened

*Outstanding physical properties make Boltaron 4332 the ideal material from which to thermoform and fabricate damage-resistant parts.*



## PROPERTIES/RATINGS

PROPERTY	TEST METHOD	TYPICAL VALUES
Specific gravity	ASTM D-792	1.35
Tensile strength (PSI)	ASTM D-638	5,700
Flexural strength (PSI)	ASTM D-790	8,700
Flexural modulus (PSI)	ASTM D-790	3.08x10 <sup>5</sup>
Izod impact (Ft. lbs./in. of notch)	ASTM D-256	20
Hardness Rockwell R	ASTM D-785	106
Heat Deflection (°F) 264 PSI (annealed)	ASTM D-648	167.5
Flammability		
FAA	FAR 25.853 A1, (i) (60 sec.)	PASS
	FAR 25.853 A1, (ii) (12 sec.)	PASS
UL	UL-94 UL-94	V-0, 5VA <sup>1</sup> V-0, 5VB <sup>2</sup>
Forming Temperature (°F)		335-385

<sup>1</sup>Values based on minimum thickness of .125"; UL File # E54688

<sup>2</sup>Values based on minimum thickness of .040"; UL File # E54688

## AVAILABILITY

Colors: Unlimited custom colors

Gauges: .028 to .250 in. (0.71 to 6.35 mm)

Widths: Up to 60 in. (1524 mm)

Lengths: Up to 120 in. (3048 mm)

Custom blank sizes: Upon request

Textures: Coarse Matte (CM), Felt (FT), Haircell (HC), Levant (LT), Mesa (MS), Suede (SD)

## OTHER BOLTARON UL 94 V-0 RATED PVC/ACRYLIC SHEET PRODUCTS FOR THERMOFORMING AND FABRICATION:

- Boltaron 1165/1165C
- Boltaron 4205
- Boltaron 4300
- Boltaron 6530
- Boltaron 6540
- Boltaron 6800



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### LIMITATION OF WARRANTY

The application suggestions, specifications and other data described here are based upon experience and information that is believed, by BPP, to be reliable. However, BPP makes no express or implied warranty that BOLTARON 4332 will perform in accordance with such specifications in any particular circumstance. Therefore, ALL EXPRESS OR IMPLIED WARRANTIES IN CONNECTION WITH BOLTARON 4332, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY DISCLAIMED. The prospective user should determine the suitability of BOLTARON 4332 and the application suggestions before actual application.