



# 4332

## **Ultra-high Impact, Thermoplastic Sheet Ideal for Gun Holsters and Knife Sheaths**

**Impact Extreme impact resistance, outstanding physical properties and a wide variety of colors and textures make Boltaron® 4332 the ultimate alloy material for your most demanding applications.**

Boltaron 4332 sheet is a proprietary, fire retardant, thermoplastic 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 thermoplastic 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 thermoplastic alloys, FR ABS, and other fire rated thermoplastics, meeting and exceeding the most demanding requirements of formers, fabricators and OEMs alike.

## PROPERTIES/RATINGS

PROPERTY	TEST METHOD	TYPICAL VALUES
Specific Gravity	ASTM D-792	1.35
Tensile Strength (PSI)	ASTM D-638	4,700
Flexural Strength (PSI)	ASTM D-790	9,700
Flexural Modulus (PSI)	ASTM D-790	340000
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	155
Flammability		
FAA	FAR 25.853 A1, (i) (60 sec.)	PASS
	FAR 25.853 A1, (ii) (12 sec.)	PASS
UL	UL-94	V-0, 5VA <sup>1</sup>
	UL-94	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