

Boltaron® 4320

LOW SHRINKAGE, PLUS HIGH IMPACT RESISTANCE
EVEN AT COLD TEMPERATURES

This extruded proprietary thermoplastic alloy also offers a UL 94 V-0 flammability rating, and resists cold-cracking, abrasion and a wide variety of chemicals and cleaners.

CHARACTERISTICS

- Low shrinkage in thermoforming
- Thermoformed orthotic and prosthetic components
- Durability and dimensional stability in thermoforming
- Highest available impact strength of materials in its class

USES

- Orthotic braces
- Prostheses
- Electrical enclosures in damage-prone, frigid areas

PERFORMANCE DETAILS

PROPERTIES

Specific Gravity (ASTM D792)	1.35	
Tensile Strength (ASTM D638)	5,700 psi	39.3 MPa
Flexural Strength (ASTM D790)	8,700 psi	60 MPa
Flexural Modulus (ASTM D790)	308,000 psi	2,125 MPa
Hardness Rockwell R (ASTM D785)	106	
Izod Impact Notched (ASTM D256)	73 °F 20 ft-lb/in	23 °C 1,068J/m
Heat Deflection Annealed (ASTM D648)	167.5 °F @264 psi	75.3 °C @1.82 MPa

*Independent lab tests at 73°F (22.8°C) in dry conditions unless otherwise noted.

SHEET SIZES

Lengths	to 120 in	3,048 mm
Widths	to 60 in	1,524 mm
Gauges	from 0.028 to 0.250 in	from 0.71 to 6.35 mm
Custom	Blank sizes, gauges on request	

FLAMMABILITY

UL 94 @ 0.130 in. (3.3 mm) min. gauge	94 V-0; 5VA ¹
UL 94 @ 0.040 in. (1.1 mm) min. gauge	94 V-0; 5VB ²

(1), (2) Independent lab tests per UL 94 test method.

THERMOFORMING GUIDELINES

Forming Temperature	335 - 385 °F	168 - 196 °C
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GENERAL
THERMOFORMING

4320
LOW SHRINKAGE

DESIGN OPTIONS

- Colors** Unlimited
- Textures** Wide range available

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RELIABILITY MEETS INNOVATION

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