

Boltaron® 4550

UV RESISTANT HIGH GLOSS SHEET FOR THERMOFORMING

GENERAL
THERMOFORMING

CHARACTERISTICS

- High gloss acrylic film
- Excellent UV resistance
- High impact
- Abrasion and chemical resistance
- Thermoformable

USES

- Equipment housings
- Medical products
- Kiosk housings
- Radomes

PERFORMANCE DETAILS

PROPERTIES

Specific Gravity (ASTM D792)	1.415	
Tensile Strength (ASTM D638)	5,000 - 5,400 psi	34.4-37.23 MPa
Flexural Strength (ASTM D790)	8,600 - 9,200 psi	59.29-63.43 MPa
Flexural Modulus (ASTM D790)	3.0 - 3.3 x 10 ⁹ psi	2,068-2,275 MPa
Izod Impact Notched (ASTM D256)	73 °F 15-18 ft-lb/in	23 °C 801-961 J/m
Hardness Rockwell (ASTM D785)	108 - 110	
Heat Deflection Annealed (ASTM D648)	161 - 163°F @ 264 psi	72 - 73°C @ 1.82 MPa

*Independent lab tests. All tests at 73 °F (23 °C) in dry conditions unless otherwise noted.

ELECTRICAL

Frequency (GHz)	2.5	5	6	10	18	24	28	30	39
Dielectric Constant (K)	2.90	2.96	2.96	2.95	2.93	2.93	2.92	2.92	2.92
Dissipation Factor (Df)	0.005	0.006	0.004	0.012	0.008	0.010	0.009	0.007	0.010

*Tested 0.250 inches in thickness.

Dielectric Strength, oil (ASTM D149)	440 V/mil	17.3 kV/mm
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FLAMMABILITY

UL 94 @.118in (3.0 mm) min. gauge	V-0
Radiant Panel (ASTM E162) Flame Spread Index @0.125 in (3.18 mm)	<10
QUV Accelerated Weathering 2,700 hrs	avg. 3.25 Delta E
Xenon Accelerated Weathering 500 hrs	avg. 0.75 Delta E

THERMOFORMING GUIDELINES

Forming Temperature	335 - 370 °F	168 - 188 °C
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SHEET SIZES

Lengths	to 120 in	3,048 mm
Widths	to 60 in	1,524 mm
Gauges	from 0.04 to 0.25 in	from 1.0 to 6.35 mm

Custom Blank sizes, gauges on request

4550
UV RESISTANT

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DESIGN OPTIONS

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Minimum 500 lb

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RELIABILITY MEETS INNOVATION

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