



## EMPIRE/BOLTARON 4550

EMPIRE/BOLTARON 4550 Sheet is an ACRYLIC-MODIFIED POLYVINYL CHLORIDE extruded sheet, compounded with excellent balance of physical properties. Field-proven in numerous commercial, industrial, institutional and transportation applications, and formulated based upon our EMPIRE/BOLTARON 4330 sheet, this material has the added characteristic of extra Ultraviolet light resistance and extended Weatherability. Just like our EMPIRE/BOLTARON 4330, it also exhibits outstanding thermoforming characteristics and excellent mold and pattern reproduction. Now produced on state-of-the-art extrusion equipment, this product exhibits high heat distortion temperature, good embossment retention and lower heat capacity (heats faster/cool faster), which means faster cycle times on standard thermoforming equipment.

### MATERIAL RATING

Formability	Excellent
Tensile strength	Excellent
Hardness	Excellent
Stiffness	Excellent
Impact strength	Excellent
Heat distortion resistance	Excellent
Abrasion resistance	Excellent
Fire resistance	Excellent
Chemical resistance	Excellent
Weatherability	Excellent
Pressure formable	Yes
Homogeneous material	Yes
Mold shrinkage	.005-.007 in./in.

### AVAILABILITY

Colors - custom, LIGHT ONLY
Gauges - standard and custom up to 0.250"
Sheet sizes - up to 60" x 120"
Textures - variety

### EMPIRE/BOLTARON 4550 -Typical physical properties

Property	ASTM Test Method	Typical Values
Specific gravity	D-792	1.40-1.43
Tensile strength (PSI) .125 gauge	D-638	5,000-5,400
Flexural strength (PSI)	D-790	8,600-9,200
Flexural modulus (PSI)	D-790	3.0-3.3 x 10 <sup>5</sup>
Impact resistance Izod notched Ft.-lb./in. of notch	D-256	15-18
Hardness Rockwell R	D-785	108-110
Heat Deflection temperature (°F) 264 PSI (annealed)	D-648	161-163°
Flammability	FAR 25.853 A1, (i)	PASS
	FAR 25.853 A1, (ii)	PASS
	UL-94 V-0/94 5-VB	0.047" - 0.117"
	UL-94 V-O/94 5-VA	0.118" - 0.250"
Radiant panel Flame spread index.125 gauge	E-162	<10
QUV accelerated weathering 2700 hrs	N/A	avg. 3.25 Delta E
Xenon accelerated weathering 500 hrs	N/A	avg. .75 Delta E
Forming window	°F	335° -370°