



Recyclable Plastic

General Information

EMPIRE/BOLTARON® 4800 Sheet is an Acrylic/PVC extruded alloy material developed specifically for mass transit interior applications. It meets FTA , UMTA AND DOCKET 90A guidelines, ASTM E-162 and ASTM E-662 for flammability and low smoke emission. With excellent thermoforming characteristics, draw ratios, and mold detail reproduction. EMPIRE/BOLTARON 4800 Sheet is also field-proven for seat backs, tray tables, overhead liners, and window shrouds.

Availability

- Colors - custom colors
- Gauges - up to .250"
- Sheet sizes - up to 60" x 120"
- Textures - variety

Material Rating

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

EMPIRE/BOLTARON 4800 Typical physical properties

Property	ASTM Test Method	Typical Values
Specific gravity	D-792	1.40 - 1.43
Tensile strength (PSI) .125 gauge	D-638	4,900 - 5,200
Flexural strength (PSI)	D-790	7,800-8,400
Flexural Modulus (PSI)	D-790	3.0-3.3 x 10 ⁶
Impact resistance Izod notched Ft./in. of notch	D-256	5 - 10
Gardner Drop	D-2039	>320
Hardness. Rockwell R	D-785	102-104
Heat Deflection temperature (F) 264 PSI (annealed)	D-648	165-168°
Flammability Radiant panel	E-162	<10
NBS Smoke (1/8")	E-662 Smoldering Mode	<100 Ds @ 90 sec. <200 Ds @ 4 min. <100 Ds @ 90 sec. <200 Ds @ 4 min.
LINE "M" Classification	P92-507	M1
MVSS 302		Pass
Mold shrinkage	In./in	0.005-0.007
Forming temperature	°F	335°-365°

Limitation of Warranty:

The application suggestions, specifications and other data described here are based upon experience and information that is believed, by Empire Plastics, Inc. to be reliable. However, Empire Plastics makes no express or implied warranty that EMPIRE/BOLTARON 4800 will perform in accordance with such specifications in any particular circumstance. Therefore, ALL EXPRESS OR IMPLIED WARRANTIES IN CONNECTION WITH EMPIRE/BOLTARON 4800 INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY DISCLAIMED. The prospective user should determine the suitability of EMPIRE/BOLTARON 4800 and the application suggestions before actual application.

EMP4800-0799