



Recyclable Plastic

General Information

EMPIRE/BOLTARON 9815E Sheet is an extruded grade, proprietary material developed specifically for aircraft interior applications that are required to meet the stringent FAA regulation for low heat release and low smoke generation (FAR 25.853 appendix F). It can be easily processed on existing tooling and fabrication equipment. Special heated tooling is not required.

EMPIRE/BOLTARON 9815E Sheet has been field-tested and approved in a variety of commercial and military aircraft interior applications worldwide.

Availability

- Colors - custom
- Gauges - .040" to .250"
- Sheet sizes - standard:
50" x 99", Others upon request
- Textures - variety

Material Rating

Formability	Excellent
Impact strength	Excellent
Tensile strength	Excellent
Hardness	Excellent
Stiffness	Excellent
Fire resistance	Excellent
Chemical resistance	Good
Abrasion resistance	Good
Weather resistance	Good
Pressure formable	Excellent
Homogeneous material	Yes

EMPIRE/BOLTARON 9815E- Typical physical properties

Property	ASTM Test Method	Typical Values
Specific gravity	D-792	1.47-1.51
Tensile strength (PSI) .125 gauge	D-638	5,500
Flexural strength (PSI)	D-790	8,700
Flexural Modulus (PSI)	D-790	4.1 x 10 ⁵
Impact resistance Izod notched Ft.-lb./in. of notch	D-256	2.0 - 5.0
Hardness. Rockwell R	D-785	107
Heat Deflection temperature (F) 264 PSI (annealed)	D-648	170
Flammability	FAR 25.853 A1,(i) FAR 25.853 A1 (ii)	PASS ALL PASS ALL
Heat Release Peak - Hrr, kW/m ² 2 Min - Hrr, kW-min/m ²	FAR 25.853 F, Part IV - -	<65 <65
NBS Smoke Ds @ 1.5 Min. Ds @ 4 Min.	F814-84(b)	<100 <200
Mold shrinkage	In./in.	0.0005-0.007
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 expressed or implied warranty that EMPIRE/BOLTARON 9815E Sheet will perform in accordance with such specifications in any particular circumstance. Therefore, ALL EXPRESS OR IMPLIED WARRANTIES IN CONNECTION WITH EMPIRE/BOLTARON 9815E Sheet, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY DISCLAIMED. The prospective user should determine the suitability of EMPIRE/BOLTARON 9815E Sheet and the application suggestions before actual application.

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