



Recyclable Plastic

GENERAL INFORMATION

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

AVAILABILITY

- Colors - custom
- Gauges - up to .250"
- Sheet sizes - standard:
31" x 61", 34" x 71", 50" x 99", 53" x 88", 56" x 122"
- Textures - variety

EMPIRE/BOLTARON 9815 - Typical physical properties

Property	ASTM test method	Typical values
Specific gravity	D-792	1.57
Tensile strength (PSI) .125 gauge	D-638	5,900
Flexural strength (PSI)	D-790	10,000
Flexural modulus (PSI)	D-790	4.6 x 10 ⁵
Impact resistance Izod notched Ft./in. of notch	D-256	1 - 2
Hardness Rockwell R	D-785	112
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.	0.005-0.007
Forming temperature	°F	335°-365°

Material Rating

Formability	Excellent
Impact strength	Good
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

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 9815 Sheet will perform in accordance with such specifications in any particular circumstance. Therefore, ALL EXPRESSED OR IMPLIED WARRANTIES IN CONNECTION WITH EMPIRE/BOLTARON 9815 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 9815 Sheet and the application suggestions before actual application.