



Recyclable Plastic

General Information

EMPIRE/BOLTARON 9815HG 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). The 9815 HG with added chemical and stain resistant finish provides a high level of gloss. It can be easily processed on existing tooling and fabrication equipment. Special heated tooling is not required. EMPIRE/BOLTARON 9815HG 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 62", 34" x 71", 50" x 99", 53" x 88", 56" x 122"
- Textures - variety

EMPIRE/BOLTARON 9815HG Sheet is available in custom colors as well as OEM and Federal Standard finishes and colors. This material was tested for stain resistance using many of the cleaning agents and other products that might contact the surface of today's modern aircraft interior. See back of this brochure for further information.

EMPIRE/BOLTARON 9815HG - 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.	0.0005-0.007
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 express or implied warranty that EMPIRE/BOLTARON 9815HG Sheet will perform in accordance with such specifications in any particular circumstance. Therefore, ALL EXPRESS OR IMPLIED WARRANTIES IN CONNECTION WITH EMPIRE/BOLTARON 9815HG 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 9815HG Sheet and the application suggestions before actual application.

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STAIN RESISTANCE TEST RESULTS

Staining Agents	Residual Stain Removal after			
	24 hours @ 75F		7 days @ 75F	
	Soap Water	Alcohol	Soap Water	Alcohol
Coca Cola	None	None	None	None
Tea	None	None	None	None
Coffee	None	None	None	None
Lemon Juice	None	None	None	None
Orange Juice	None	None	None	None
Grape Juice	None	None	None	None
Ketchup	None	None	None	None
French's Mustard	None	None	None	None
Margarine	None	None	None	None
Chocolate Syrup	None	None	None	None
Beer	None	None	None	None
Red Wine	None	None	None	None
Vinegar	None	None	None	None
Grape Jelly	None	None	None	None
Windex	None	None	None	None
Fantastic	None	None	None	None
Mr. Clean	None	None	None	None
Formula 409	None	None	None	None
Upholstery Cleaner	None	None	None	None
Hair Oil	None	None	None	None
Lipstick	None	None	None	None
Crayon	None	None	None	None
Ball Point	None	None	None	None
Felt Pen	None	None	None	None

Material Rating

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