



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.

EMP9815HG-0699

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 |