

Gillfab[®] 4122S

DESCRIPTION

Gillfab[®] 4122S is a light weight and low smoke emission sandwich panel made from woven glass reinforced phenolic facings bonded to meta-aramid honeycomb core. 1 mil white polyvinyl fluoride film overlay can be added on one or both sides upon request.

APPLICATIONS

This versatile panel is typically used for aircraft interior applications such as sidewall, cargo compartments, bulkheads, galley, lavatory, and ceiling panels.

FEATURES

- · Low smoke emission
- · Good burn through resistance
- · Corrosion resistant
- High strength to weight ratio

AVAILABILITY

| | 0.250 (6.35) | | |
|------------------------------------|---------------------|--|--|
| Thickness ¹ , inch (mm) | 0.500 (12.70) | | |
| | 0.750 (19.05) | | |
| | 1.000 (25.40) | | |
| Length, inch (mm) | Typical 144 (3,658) | | |
| Width, inch (mm) | Typical 48 (1,219) | | |
| Color | Natural or White | | |

¹Different panel thicknesses available upon request

CONSTRUCTION

Adhesive:Modified phenolicCore:Gillcore® HD honeycombFacings Reinforcement:7781 Fiberglass clothFacings Resin System:Phenolic

1 mil white polyvinyl fluoride film overlay can be added on one or both sides upon request.

SPECIFICATIONS

• FAR Part 25.853 and 25.855 Appendix F Part I

HEALTH PRECAUTIONS

This product is safe to use and apply when recommended precautions are followed. Before using this product, read and understand the Safety Data Sheet (SDS), which provides information on health, physical and environmental hazards, handling precautions and first aid recommendations. A SDS is available at https://www.thegillcorp.com/msds.php.

For industrial use only. Keep away from children. Additional information can be found at: www.thegillcorp.com. For sales and order inginformation call 1-626-443-6094.

F203 –9/21





PRODUCT DATA SHEET

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PERFORMANCE PROPERTIES, TYPICAL

Below values are typical of 4122S panels and should NOT be used as design values. FAA approved B-Basis allowables for 4122S250, 4122S500, and 4122S750 mechanical properties and FAA forms 8110-3 are available upon request.

| TGC Part Number | | | 4122S250 | 4122S500 | 4122S750 | 4122S1.0 |
|---|--|------------|--|--------------|--------------|--------------|
| Physical Properties | | | | | | |
| Panel Thickness, inch (mm) | | | 0.247 (6.2) | 0.497 (12.6) | 0.744 (18.9) | 1.000 (25.4) |
| Nominal Facing Thickness ¹ , inch (mm) | | | 0.020/0.020 (0.508/0.508) | | | |
| Areal Weight, PSF (kg/m ²) | | | 0.48 (2.34) | 0.54 (2.64) | 0.60 (2.93) | 0.65 (3.17) |
| Mechanical Properties | | | | | | |
| Long Beam Bending ² | Ultimate Load, lbf (N) | Ribbon | 75 (334) | 200 (890) | 290 (1290) | 360 (1601) |
| | | Transverse | 80 (356) | 190 (845) | 275 (1223) | 340 (1512) |
| | Facesheet Ultimate Strength, ksi (MPa) | Ribbon | - 30 (207) | | | |
| | | Transverse | | | | |
| Short Beam Shear ³ | Ultimate Load, lbf (N) | Ribbon | 280 (1246) | 475 (2113) | 670 (2980) | 755 (3358) |
| | | Transverse | 145 (645) | 265 (1179) | 375 (1668) | 455 (2024) |
| | Core Shear Ultimate Strength, psi (MPa) | Ribbon | 200 (1.38) | 160 (1.10) | 150 (1.03) | 125 (0.86) |
| | | Transverse | 105 (0.72) | 90 (0.62) | 85 (0.59) | 77 (0.53) |
| Core Compression Ultimate Strength ⁴ , psi (MPa) | | | 420 (2.90) | 355 (2.45) | 335 (2.31) | 335 (2.31) |
| In-Plane Shear Ultimate Strength ⁵ , lbf/inch (N/mm) | | | N/A | N/A | 455 (80) | N/A |
| Flammability Properties | | | | | | |
| Flammability | | | Meets FAR 25.853 and 855 App. F Part I | | | |

¹ Each facing includes two layers of 7781 fiberglass cloth. Different facing thicknesses are available upon request.

² Long Beam Bending was tested and Facesheet Ultimate Strength was calculated per ASTM D7249. Specimens were tested with 4-point bending configuration (4" loading span and 22" support span).

- ³ Short Beam Shear was tested and Core Shear Ultimate Strength was calculated per ASTM C393. Specimens were tested with 3-point bending configuration (6" support span).
- ⁴ Core Compression was tested and calculated per ASTM C365.
- ⁵ In-Plane Panel Shear specimens were tested per ASTM D8067.

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All recommendations, statements, values and technical data herein are based on tests The Gill Corporation believes to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. Users shall rely on their own information and tests to determine suitability of the product for the intended use and assume all risks and liability resulting from their use of the product. The Gill Corporation's sole responsibility shall be to replace that portion of the product that proves to be defective. The Gill Corporation will not be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements not contained in a written agreement signed by an officer of The Gill Corporation shall not be binding upon The Gill Corporation.