THE GILL CORPORATION

PRODUCT DATA SHEET

Gillfab® 4009

DESCRIPTION

Gillfab® 4009 is a light weight and high strength sandwich panels made from uni-directional carbon fiber reinforced epoxy facings bonded to Gillcore® HD honeycomb.

APPLICATIONS

The panel is designed for use as medium duty structural panels in aircraft, where light weight and rigidity are primary considerations, such as underseats, galleys, flooring, and bulkheads.

FEATURES

- Light weight and high rigidity
- Glass fiber overlay can be added to prevent galvanic corrosion
- Service temperature up to 160°F (71°C)

AVAILABILITY

Thickness, inch (mm)	0.400 (10)
Length and Width, inch (mm)	Typical 48 x 120 (1,219 x 3,048) Maximum 65 x 144 (1,651 x 3,658)
Facing thickness, face/back, inch, (mm)	Typical 0.010/0.010 (0.254/0.254), also available in 0.015/0.015 (0.381/0.381), 0.020/0.020 (0.508/0.508) and 0.035/0.035 (0.890/0.890)

CONSTRUCTION

Adhesive: Epoxy
Core: Meta-aramid
Facings Reinforcement: Unidirectional carbon fiber
Facings Resin System: Epoxy

SPECIFICATIONS

- Qualified to Embraer specification MEP 15-030
- FAR 25.853 and 25.855: Fire resistance

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 ordering information call 1-626-443-6094.

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PERFORMANCE PROPERTIES, TYPICAL

The following tests are run in accordance with Embraer MEP 15-030, based on based on Gillfab® 4009 with 0.010"/0.010" (0.254 mm/0.254 mm) facings.

TGC Part Number	4009-400
Weight, psf (kg/m^2)	0.39 (1.90)
Climbing Drum Peel, Face/Bottom, in-lbs/3" width (N/76mm width)	41/41 (182/182)
Long Beam Flexure Strength, L-direction, lbf (N) Deflection @ 100 lbs, inch (@445N, mm) Facing stress, ksi (Mpa)	282 (1,253) 0.412 (10.5) 59 (410)
Long Beam Flexure Strength, W-direction, lbf (N) Deflection @ 100 lbs, inch (@445N, mm) Facing stress, ksi (Mpa)	272 (1,212) 0.398 (10.1) 58 (399)
Short Beam flexure Strength, L-direction, lbf (N) Core Shear Stress, psi (Mpa)	580 (2,581) 245 (1.69)
Short Beam flexure Strength, W-direction, lbf (N) Core Shear Stress, psi (Mpa)	325 (1,443) 138 (0.95)
Flatwise Compression, psi (Mpa)	625 (4.31)
Flammability	Meet requirements of FAR 25.853 Appendix F Part I

Figures shown reflect typical values and should not be used as design specifications.

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