



PRODUCT DATA SHEET

Gillfab® 5065

DESCRIPTION

Gillfab® 5065 is an aircraft grade sandwich panel made from unidirectional fiberglass reinforced epoxy facings bonded to aluminum honeycomb core.

APPLICATIONS

The panel is used for cargo flooring panels in freighter aircraft.

FEATURES

- High impact strength
- High strength-to-weight ratio
- Low smoke generation
- Economical alternative to panels using aramid honeycomb
- Service temperature range: -90°F to 180°F (-68°C to 82°C)

AVAILABILITY

Thickness, inch (mm)	0.300 (7.62) and 0.400 (10.16)
Facing thickness, face/back, inch (mm)	0.030/0.015 (0.762/0.381)
Width, inch (mm)	Typical 48 (1,219) Maximum 60 (1,524)
Length, inch (mm)	Typical 96 (2,438) Maximum 144 (3,658)



CONSTRUCTION

Adhesive:	Epoxy film
Core:	5052 aluminum core
Facings Reinforcement:	Unidirectional fiberglass
Facings Resin System:	Epoxy

SIMILAR GILL PRODUCT

TGC Product No.	Difference
Gillfab® 5424	Similar but balanced construction, with broader selection of skin type, thickness and aluminum core types.

SPECIFICATIONS

- McDonnell Douglas BZZ 7002 Ty IV, V

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.



PERFORMANCE PROPERTIES, TYPICAL

The following tests are run in accordance with BZZ7002 specification requirements.

TGC Part Number	5065-300	5065-400
Weight, psf (kg/m ²)	0.706 (3.45)	0.756 (3.69)
Long Beam Bending, lbs (N)	N/A	589 (2,620)
Deflection @ 100 lbs, inch (@ 445N, mm)	0.896 (22.76)	0.450 (11.43)
Panel shear, lbs (N)	860 (3,826)	1,127 (5,013)
Drum Peel, in-lbs/3" width (N/76mm width), face	40 (178)	55 (245)
Core Compression, psi (N/mm ²)	1,758 (12.12)	1,542 (10.63)
Insert Shear, lbs (N)*	1,696 (7,544)	1,579 (7,023)
In-Plane Shear, lbs/in (N/mm)	580 (102)	595 (104)
Impact, in-lbs (Nm)	120 (13.56)	133 (15.03)
Warpage, in/ft	<0.025	<0.025
Indentation	821	To be tested
Flammability	Meets FAR 25.853 & 855 App F Part I	

*5L5107A3

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

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