

## GENERAL PURPOSE

### \*\*\*GP

#### PRODUCT

General Purpose (GP) translucent and opaque Fiberglass Reinforced Plastic (FRP) panels are produced with general purpose resin combined with random chopped fiberglass for reinforcement.

#### NOTE

For panels with U.V. resistance and improved weathering characteristics, please use Duralite, Solarstrong, or SunStrong.

### DESIGN PROPERTIES

PRODUCT CODE	LIGHT TRANSMISSION*	TYPE	COLOR	SIZE	WEIGHT
xxxGP xxx = Profile Number	80% 50-60% 40-50%	Translucent	Clear   502 Snowflake White   405	As defined by tooling and approved drawing	5oz/ft <sup>2</sup> 6oz/ft <sup>2</sup> 8 oz/ft <sup>2</sup> 10oz/ft <sup>2</sup>

Percentages of light transmission shown are nominal values with a tolerance of + or - 5%

Methods of test: Light Transmission per ASTM D1494

\*Light Transmission applies to 8 oz/ft<sup>2</sup> only.

### TYPICAL PHYSICAL PROPERTIES

PROPERTY	GP 5 oz./ft <sup>2</sup>	GP 6 oz./ft <sup>2</sup>	GP 8 oz./ft <sup>2</sup>	GP 10 oz./ft <sup>2</sup>	TEST METHOD
FLEXURAL STRENGTH	20 x 10 <sup>3</sup> psi 138 MPa	25 x 10 <sup>3</sup> psi 172 MPa	30 x 10 <sup>3</sup> psi 207 MPa	33 x 10 <sup>3</sup> psi 228 MPa	ASTM - D790
FLEXURAL MODULUS	0.5 x 10 <sup>6</sup> psi 3447 MPa	0.7 x 10 <sup>6</sup> psi 4826 MPa	0.6 x 10 <sup>6</sup> psi 4137 MPa	0.6 x 10 <sup>6</sup> psi 4137 MPa	ASTM - D790
TENSILE STRENGTH	10 x 10 <sup>3</sup> psi 69 MPa	15 x 10 <sup>3</sup> psi 103 MPa	20 x 10 <sup>3</sup> psi 138 MPa	20 x 10 <sup>3</sup> psi 138 MPa	ASTM - D638
TENSILE MODULUS	1.0 x 10 <sup>6</sup> psi 6895 MPa	1.2 x 10 <sup>6</sup> psi 8274 MPa	1.5 x 10 <sup>6</sup> psi 10,342 MPa	1.6 x 10 <sup>6</sup> psi 11,032 MPa	ASTM - D638
COEFFICIENT OF LINEAR THERMAL EXPANSION	1.6 x 10 <sup>-5</sup> in/in/°F 29 µm/m/°C	1.6 x 10 <sup>-5</sup> in/in/°F 29 µm/m/°C	1.6 x 10 <sup>-5</sup> in/in/°F 29 µm/m/°C	1.6 x 10 <sup>-5</sup> in/in/°F 29 µm/m/°C	ASTM - D696
AVERAGE BURN RATE	N/A	≤ 2.5 in/min	N/A	≤ 2.5 in/min	ASTM - D635
COMBUSTIBILITY CLASSIFICATION	N/A	CC2	N/A	CC2	ASTM - D635
SELF IGNITION TEMPERATURE	> 650°F > 343°C	> 650°F > 343°C	> 650°F > 343°C	> 650°F > 343°C	ASTM - D1929
FLASH IGNITION TEMPERATURE	> 650°F > 343°C	> 650°F > 343°C	> 650°F > 343°C	> 650°F > 343°C	ASTM - D1929





## SPECIFICATIONS

Crane Composites, Inc. (CCI) panels are manufactured by a continuous laminating process in lengths as required.

## COMPOSITION

Reinforcement: Random chopped fiberglass.

Resin Mix: Polyester/styrene copolymer, inorganic fillers, and pigments.

## FINISHED PANEL QUALITY

1. Panels shall have a wear side with a pebble-like embossed finish (FXE, FX, PIF, FTSTF, CGI, PWI, PCI, FTSTF/FTSTJ, FX/CGPF, LPCE, FRFRJ/FX) OR smooth finish (FSFM, FSI, PSIF, CNSI, IPSA/IPSC/IPCN, FSQF, FSI) OR matte embossed finish (RE/RE\*, REI) OR consistent pattern (STA/SSTA/LBALN/LNAM, STC/SSTC/LBCLN/FTBB).

Color shall be uniform throughout as specified. OR Panels shall have a wear side with a gelcoat finish. There shall be a contrasting core color. | SMXGJ/MXGCJ

The backside shall be smooth. The backside surface may have some variations which do not affect functional properties and are not cause for rejection.

2. Physical properties shall be as set forth on Page 1.
3. Dimensions shall be as specified on purchase order, subject to the following tolerances:  
 WIDTH: ±1/8" (±3.2 mm)  
 LENGTH: ±1/8" (±3.2 mm) up to 12' (3.7 m)  
 SQUARENESS: ±1/8" (3.2 mm) in 48" (1.2 m) of width
4. Product quality standards and tolerances for panel weight and thickness shall be as set forth in Crane Composites' Quality Control Procedures/Standards which are available on request.
5. Panels shall be installed in accordance with manufacturer's guidelines as set forth in the Crane Composites Installation Guide (Form #6876).

## CERTIFICATIONS

1. Meets USDA/FSIS requirements.
2. Some products have been tested and meet the requirements FMVSS 302. For a list products that have been tested to this requirement, see our test reports on

our website at [www.cranecomposites.com/testreports.html](http://www.cranecomposites.com/testreports.html)

3. FRP does not support mold or mildew (per ASTM D3273 and ASTM D3274).
4. Meets minimum requirements of major model building codes for Class A interior wall and ceiling finishes of flame spread ≤ 25, smoke developed ≤450 (per ASTM E-84).  
[FXE, FSFM, FX, STA/SSTA/LBALN/LNAM, FX/CGPF, IPSA/IPSC/IPCN, FRFRJ/FX, FSI](#)
5. Meets minimum requirements of major model building codes for Class C interior wall and ceiling finishes of flame spread ≤ 200, smoke developed ≤450 (per ASTM E-84).  
[PIF, FTSTF, PSIF, CGI, PWI, RE/RE\\*, REI, STC/SSTC/LBCLN/FTBB, SMXGJ/MXGCJ, FTSTF/FTSTJ, FSQF, FX/CGPF, LPCE, IPSA/IPSC/IPCN](#)
6. Meeting certification requirements for CAN/ULC-S102.  
[| FX, PCI, IPCN, CNSI](#)
7. MEA Certified. MEA 16-85M. VOL. II  
[| FX](#)
8. Fire-X Glasbord (FXE and FSFM) is the only fiberglass reinforced interior wall and ceiling panel that is accepted under Factory Mutual Research approved FRP, Plastic Interior Finish Materials when installed in accordance with Factory Mutual Research Approval Standard 4880. This information is available at [www.approvalguide.com](http://www.approvalguide.com) and [www.FRP.com/FMAApproved.pdf](http://www.FRP.com/FMAApproved.pdf).  
[FXE, FSFM,](#)
9. Agriculture and Agri-Food Canada Certified  
[| PCI, CNSI](#)
10. This panel has earned GREENGUARD® Indoor Air Quality Certification (Certificate #16349-410, 16364-410, 16351-410) [greenguard.org](http://greenguard.org). | [Varietex Class A/C](#) (Certificate #16352-410) [greenguard.org](http://greenguard.org). | [Varietex Gelcoat](#) (Certificate #16350-410) [greenguard.org](http://greenguard.org). | [DESIGNS](#) (Certificate #15955-410) [greenguard.org](http://greenguard.org). | [Glasbord](#) (Certificate #15956-410) [greenguard.org](http://greenguard.org). | [Glasbord FM](#) (Certificate #15957-410) [greenguard.org](http://greenguard.org). | [Sequentia](#)
11. Biological Resistance rating of 0 – Excellent per ISO 846.  
[| FSFM](#)

## FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS

The numerical flame spread and smoke development ratings are not intended to reflect alleged hazards presented by Crane Composites products under actual fire conditions and this product has not been tested by Crane Composites except as set forth below. These ratings are determined by small-scale tests conducted by Underwriters Laboratories and other independent testing facilities using the American Society for Testing and Materials E-84 test standard (commonly referred to as the "Tunnel Test").

CRANE COMPOSITES PROVIDES THESE RATINGS FOR MATERIAL COMPARISON PURPOSES ONLY. Like other organic building materials (e.g. wood), panels made of fiberglass reinforced plastic resins will burn. When ignited, FRP may produce dense smoke very rapidly. All smoke is toxic. Fire safety requires proper design of facilities and fire suppression systems, as well as precautions during construction and occupancy. Local codes, insurance requirements and any special needs of the product user will determine the correct fire-rated interior finish and fire suppression system necessary for a specific installation. We believe all information given is accurate, without guarantee. Since conditions of use are beyond our control, all risks are assumed by the user. Nothing herein shall be construed as a recommendation for uses which infringe on valid patents or as extending a license under valid patents. [www.astm.org/Standards/E84.htm](http://www.astm.org/Standards/E84.htm).