



Exterior Crystalite Panel (Smooth) | SCRY

Greenhouse or Architectural Translucent Panel

Product:

Crane Composites fiberglass reinforced plastic (frp) panels are durable, semi-rigid, and will not mold, mildew, rot, rust, corrode, stain, dent, peel, or splinter. Panels exhibit a high strength-to-weight ratio with expansion/contraction values similar to aluminum.

Purpose:

Crane Composites Crystalite panels are intended for use as a greenhouse or translucent architectural panel. UV stabilizers have been added for increased weatherability.

Table One: Physical Properties			
Typical Values			Test Method
Property	SCRY 4 oz./square foot	SCRY 5 oz./square foot	
Tensile Strength	9 x 10 ³ psi	10 x 10 ³ psi	ASTM - D638
Tensile Modulus	1 x 10 ⁶ psi	1.2 x 10 ⁶ psi	ASTM - D638
Flexural Strength	20 x 10 ³ psi	25 x 10 ³ psi	ASTM - D790
Flexural Modulus	.75 x 10 ⁶ psi	1.2 x 10 ⁶ psi	ASTM - D790
Impact Strength (IZOD)	8.0 ft-lb/in notched	12.0 ft-lb/in notched	ASTM - D256
Barcol Hardness	45	45	ASTM - D2583
Coefficient of Linear Thermal Expansion	2 x 10 ⁻⁵ in/in/°F	2 x 10 ⁻⁵ in/in/°F	ASTM - D696
Water Absorbion	0.3%/24 hrs @ 77°F	0.3%/24 hrs @ 77°F	ASTM - D570

Table Two: Physical Properties				
Product Code	Nominal Thickness	Color	Finish	Size
SCRY	4oz. / sq. ft.	502 Clear	Smooth	Manufactured to order*
		418 Shade White		
	5oz. / sq. ft.	502 Clear		48" x 50" or Manufactured to order*
		418 Shade White		

*12,000 sq. ft. per product, weight and color required to manufacture. Orders from different customers may be batched to obtain manufacturing minimum, however lead time may be affected.



SPECIFICATIONS

These panels are manufactured by a continuous laminating process in lengths as required.

COMPOSITION

- 1.Reinforcement: random chopped fiberglass roving.
- 2.Resin mix: modified polyester copolymer and inorganic fillers and pigments.

FINISHED PANEL QUALITY

- 1.Panels shall have a wear side with a smooth finish. Color shall be uniform throughout, as specified. The backside shall be smooth. Backside imperfections which do not affect functional properties are not cause for rejection.
- 2.Physical properties shall be as set forth in Table 1.
- 3.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.
- 4.Dimensions shall be as specified on purchase order, subject to the following tolerances:
 - Width: $\pm 1/8$ " (3.2 mm)
 - Length: $\pm 1/8$ " (3.2 mm) up to 12' (3.7 m)
 - Squareness: not more than $1/8$ " (3.2 mm) out of square
- 5.Panels shall be installed in accordance with manufacturer's guidelines as set forth in the Structoglas "Installation Guide."

FABRICATING RECOMMENDATIONS

Note: Protect your eyes with goggles and cover your nose and mouth with a filter mask when cutting Structoglas panels.

Hand fabrication: Drilling-high speed drill bit (60° cutting angle, with 12°-15° clearance) or hole saw.

Cutting: Sheet metal shears or circular saw with reinforced carborundum or carbide-tipped blade.

Production Fabrication: Use carbide-tipped tools. Straight cuts can be sheared (90° cutting edge with 0.002" (0.05 mm) clearance) or sawed. For irregular cuts, use die punch or band saw.

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.

We believe all information given is accurate. It is offered in good faith, but 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.

STORAGE

All frp products should be stored indoors until placed into use.

SERVICEABLE TEMPERATURE RANGE

Panels will perform in temperatures from -40°F (-40°C) to 150°F (66°C). For use in environments beyond this range contact Crane Composites for recommendations.

LIMITATIONS

Near heat source - frp panel products may discolor when installed behind or near any heat source which radiates temperatures exceeding 130°F (55°C), such as cookers, ovens, and deep fryers.

NOTICE

Panels will provide a clean, aesthetically-pleasing finished installation. However, by nature, fiberglass reinforced plastic paneling may occasionally have small areas that are aesthetically unacceptable for use. Panels should be inspected on-site prior to installation. If any portion of material does not provide an acceptable appearance, Crane Composites should be notified at once. Upon verification of unacceptability, that portion of material will be replaced by Crane Composites. Crane Composites' sole responsibility is for the replacement of defective materials but not for labor or other handling or installation expenses.

CERTIFICATION

- A.Flame spread ≤ 200 , smoke developed ≤ 450 (per ASTM E-84) (**5oz. Only**)
- C.Frp does not support mold or mildew (per ASTM D3273 and ASTM D3274)

The 4oz. product has not been tested for an ASTM E-84 fire-rating and should not be used as an interior wall or ceiling panel.