

CRYSTALITE®

Exterior Smooth Panel SCRY

PRODUCT

Exterior Crystalite (SCRY) translucent fiberglass reinforced plastic (FRP) panels are durable, semi-rigid, and will not mold, mildew, rot, rust, corrode, stain, dent, peel, or splinter. Exterior Crystalite panels use an exterior grade Neopentyl Glycol (NPG) resin combined with random chopped fiberglass for reinforcement. This panel provides improved weathering characteristics.

PURPOSE

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

DESIGN PROPERTIES

PRODUCT CODE	Weight	Type	COLOR	AVAILABLE SIZES
SCRY	4.0 oz/ft ²	Translucent	Clear 502 White 418 Translucent White 436	10" - 60" x 24" - up to 500' 4' x 10' (multiples may be required)
	5.0 oz/ft ²			10" - 60" x 24" - up to 500' 4' x 10' Clear (502) Available in 48" x 50" Stock (multiples may be required)
	8.0 oz/ft ²			10" - 60" x 24" - 500' x 8' 4' x 10' (multiples may be required)

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

PHYSICAL PROPERTIES

PROPERTY	SCRY 4 oz./ft ²	SCRY 5 oz./ft ²	SCRY 8 oz./ft ²	TEST METHOD
FLEXURAL STRENGTH	20 x 10 ³ psi 138 MPa	25 x 10 ³ psi 172 MPa	28 x 10 ³ psi 193 MPa	ASTM - D790
FLEXURAL MODULUS	1.2 x 10 ⁶ psi 8274 MPa	0.7 x 10 ⁶ psi 4826 MPa	1.0 x 10 ⁶ psi 6,895 MPa	ASTM - D790
TENSILE STRENGTH	9 x 10 ³ psi 62 MPa	10 x 10 ³ psi 69 MPa	15 x 10 ³ psi 103 MPa	ASTM - D638
TENSILE MODULUS	1.0 x 10 ⁶ psi 6875 MPa	1.2 x 10 ⁶ psi 8274 MPa	1.2 x 10 ⁶ psi 8274 MPa	ASTM - D638
COEFFICIENT OF LINEAR THERMAL EXPANSION	2 x 10 ⁻⁵ in/in/°F 36 µm/m/°C	2 x 10 ⁻⁵ in/in/°F 36 µm/m/°C	2 x 10 ⁻⁵ in/in/°F 36 µm/m/°C	ASTM - D696
LIGHT TRANSMISSION	NA	NA	63 - 71 % (Translucent White 436) 92 - 100 % (Clear 502)	ASTM - D1494





SPECIFICATIONS

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

COMPOSITION

Reinforcement: Random chopped fiberglass.

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. 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: $\pm 1/8"$ (3.2 mm) 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.

CERTIFICATIONS

1. FRP does not support mold or mildew (per ASTM D3273 and ASTM D3274)
2. Crystalite 5 oz. meets minimum requirements of major model building codes for Class C interior wall and ceiling finishes of flame spread ≤ 200 , smoke developed 450 or less (per ASTM E-84) (Crystalite 4 oz. and 8 oz. have not been tested and should not be used as an interior panel)

FABRICATING RECOMMENDATIONS

NOTE: Protect your eyes with goggles; cover your nose and mouth with a filter mask; cover exposed skin when cutting CCI panels.

HAND FABRICATING: 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 FABRICATING: 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.

SDS: Prior to working with our products, see our most current SDS at cranecomposites.com/sds.html

STORAGE

All Crane Composites FRP products should be stored indoors.

SERVICEABLE TEMPERATURE RANGE

Panels will perform in temperatures from -40°F (-40°C) to 130°F (55°C). For use in environments beyond this range contact Crane Composites for recommendations.

LIMITATIONS

NEAR HEAT SOURCE: Crane Composites panels 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.

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.

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A global leading provider of resilient wall and ceiling coverings. Kemlite® was established in 1954 and the company changed names to Crane Composites in 2007. Crane Composites is headquartered in Channahon, IL and all our products are manufactured in the United States. We work with hundreds of distributors, ensuring our products are easily accessible and readily available to our customers.

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