

# Filon® G-III\*

**Part Number/Identifier:**

RBP -FILON G-III

RBP2 -FILON G-III WITH ENHANCED SURFACE

**Application:** RV SIDEWALL PANEL

**PRODUCT:**

Filon Gelcoated exterior products are durable, semi-rigid fiberglass reinforced polyester resin (frp) materials. The gelcoated surface is highly scratch and abrasion resistant with excellent weathering characteristics.

\*Filon G-III is replacing standard Filon RVF products.

**PURPOSE:**

Filon Gelcoated exterior products are designed for exterior use on recreational vehicle sidewalls. Also, suitable for use as roofs, doors, subflooring, and for luggage compartments. **Attention:** The backside finish is conducive to laminating operations. Follow adhesive manufacturer's instructions carefully.

**PHYSICAL PROPERTIES: TABLE 1\***

PROPERTY	TYPICAL VALUE		TEST METHOD
Flexural Strength	19.1 x 10 <sup>3</sup> psi	132 MPa	ASTM D790
Flexural Modulus	6.0 x 10 <sup>5</sup> psi	4137 MPa	ASTM D790
Tensile Strength	12.0 x 10 <sup>3</sup> psi	83 MPa	ASTM D638
Tensile Modulus	10.0 x 10 <sup>5</sup> psi	6895 MPa	ASTM D638
Izod Impact	4.5 ft-lb/in	0.24 J/mm	ASTM D256
Coefficient of Linear Expansion	1.7 x 10 <sup>-5</sup> in/in•°F	30.60µm/m•°C	ASTM D696
Water Absorption	.20%/24hrs @77°F	.20%/24hrs @25°F	ASTM D570

\* Fiberglass reinforced plastic panels are low pressure composites and are not true homogeneous panels. Therefore, multiple samples are tested to arrive at an average value that is suitable for a general evaluation of the product and its anticipated performance.

**DESIGN DATA: TABLE 2**

PART NUMBER IDENTIFIER	NOMINAL THICKNESS	FINISH	NOMINAL WEIGHT	MINIMUM BEND RADIUS	WIDTHS	COLORS
RBP	0.045" (1.1mm)	Smooth	.33 lbs/ft <sup>2</sup> (1.61 kg/m <sup>2</sup> )	7" (178mm)	36"-108" (.9m - 2.7m)	www.filoncolors.com
	0.05" (1.27 mm)		0.37 lbs/ft <sup>2</sup> (1.81 kg/m <sup>2</sup> )			
	0.06" (1.5mm)		.44 lbs/ft <sup>2</sup> (2.15 kg/m <sup>2</sup> )			
	0.07" (1.78 mm)		0.51 lbs/ft <sup>2</sup> (2.49 kg/m <sup>2</sup> )			

## SPECIFICATIONS

Filon panels are manufactured by a continuous laminating process in lengths and widths as required.

## COMPOSITION

1. Reinforcement: Random chopped fiberglass roving.
2. Resin Mix: Modified polyester resin and inorganic fillers and pigments.

## FINISHED PANEL QUALITY

1. Panels shall have smooth finish on the front side. Color shall be uniform throughout. 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:**  $\pm 1/8"$  ( $\pm 3.2$  mm)
  - Length:**  $\pm 1/8"$  ( $\pm 3.2$  mm) up to 8' (2.4 m)  
 $\pm 1/4"$  ( $\pm 6.4$  mm) up to 40' (12.2 m)
  - Squareness:**  $1/8"$  (3.2 mm) in 48" (1.2 m) of width
4. **Disclaimer:** Crane Composites does not make any claims to the combustibility rating of the products listed on this data sheet. Not intended for interior applications.

## FABRICATING RECOMMENDATIONS

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

**Hand fabricating:** Drilling—High speed drill bit (60° cutting angle, with 12°-15° clearance) or hole saw.

**Stapling:** Standard pneumatic stapler.

**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.

**Painting preparation:** To properly prepare the panel surface for painting, make sure the surface is clean, dry and free from all oils, grease, silicones, dust, and other contaminants. Alkaline detergents or clean water may be used for this purpose. Sanding or roughening of the panel surface is recommended to achieve acceptable paint adhesion. Use 600 grit or finer sand paper or a 3M "Ultrafine" Scotch-Brite® pad should be used.

**RV Cleaning Instructions:** Available from Crane Composites, Inc.

## STORAGE REQUIREMENTS

Keep contents dry. Store indoors in a well ventilated area. Exposure to moisture will cause discoloration and lead to poor adhesive bonding.

## PLEASE NOTE THE FOLLOWING PRODUCT USE INFORMATION:

Filon Recreational Vehicle Products manufactured by Crane Composites, Inc. (hereafter called CCI) will provide a clean, aesthetically-pleasing finished installation. However, by nature, fiberglass reinforced plastic panels may occasionally have small areas that are aesthetically unacceptable for use. Panels should be inspected on-site prior to installation or lamination and original Crane Composites skid tag/ticket number removed and retained. If any portion of material will not provide an acceptable appearance, CCI should be notified at once. Please report the non-conforming product utilizing the retained skid tag/ticket number. Upon verification of unacceptability, CCI will replace or refund the purchase price of the non-conforming product.

### Additional Information Available:

- #6242 Care And Maintenance/Warranty
- #65000 RV Repair Manual
- RV Repair Video
- Color Chart Available on [www.filon.com](http://www.filon.com)

**kemlite**  
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For further information on our MSDS and Terms and Conditions of Sale,  
Visit our website [www.cranecomposites.com](http://www.cranecomposites.com)

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## LAMINATION

Crane Composites recommends that the moisture content of lauan substrate be no greater than 12% at the time of lamination and that the glue coverage between the Crane Composites panel and the substrate be 100% coverage at the weight and thickness recommended by the adhesive manufacturer. Prior to lamination the frp panel must be free of dust, moisture, particulates or backside contaminants to ensure 100% bond. The quality of the substrate surface must also be free of dust or particulates prior to lamination. Crane Composites will not be responsible for any loss resulting from sub-standard lamination processes.

Testing has indicated that non-lauan substrates such as layered paper based products do not perform well and may cause failure between the panel and the substrate. Use of any substrate other than lauan plywood must be pre-approved by Crane Composites.

After lamination, the substrate must not be subjected to water intrusion or leakage as this may cause delamination and/or gel coat blistering, which will not be covered by under warranty.

## SIDEWALL CONSTRUCTION WITHOUT SUBSTRATES

Crane Composites should be consulted before specifying and installing any substrate free product.

## MINIMUM BEND RADIUS

Crane Composites recommends all radius bends be supported by a solid substrate and not exceed the maximum bend radius specified on the product technical data sheet.

## DARK COLORS

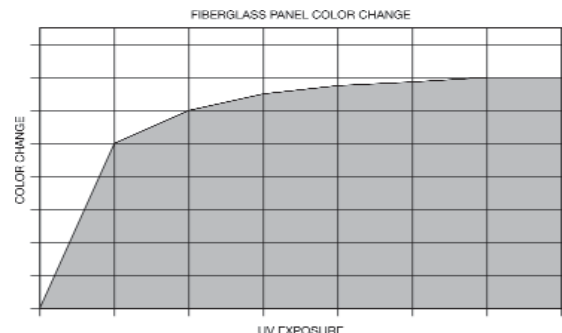
Dark colors, whether gel-coated or painted, will affect panel performance. Dark colored panels should be tested for performance under all appropriate conditions to make sure such colors will meet the requirements of the application. Dark colors may cause excessive heat build-up on the panel resulting in possible sidewall rippling, delamination, cracking or decal failure. To be covered under warranty, dark colors must be pre-approved by Crane Composites, Inc.

## APPLYING DECALS & PAINT FINISHES

Be aware that the application of certain paint or decal film color, normally those with a darker appearance, may cause excessive heat build-up on the panel resulting in possible sidewall rippling, delamination, or cracking. Dark colored panels should be tested under all appropriate conditions to make sure such colors will meet the requirements of the application. The use of a heat gun to apply or remove decals is not recommended as it will cause cracking of the gel coat finish and will void this warranty. To be covered under warranty dark colors must be pre-approved by Crane Composites, Inc.

## COLOR CHANGE

All products, when exposed to weathering and sunlight, change color over time as part of the aging process. The rate of color change with frp is generally greatest during the initial years of exposure, and then will level off. Normal color change is not covered under Warranty.



## NONWARRANTY

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 that infringe on valid patents or as extending a license under valid patents.

**kemlite**  
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For further information on our MSDS and Terms and Conditions of Sale,  
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