



Fiberglass Reinforced Polymer Panels

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Technical Data

Product Description Acryloy / CR-Acryloy

(NON-FIRE RETARDANT) '30' Series

ACRYLOY/CR-ACRYLOY FRP PANELS

Resolite Acryloy and CR-Acryloy are names synonymous with Fiberglass Reinforced Polymer panels in the corrosion and industrial markets. In very corrosive environments, such as steel mill pickling operations, the maintenance staff discovered that after a few years of exposure their metal cladding was failing. The only things intact were the translucent FRP panels. From that start, over 45 years ago, Resolite has become the leading producer of FRP panels for the corrosion market.

Acryloy is the translucent and CR-Acryloy the opaque version of Resolite's **non-fire retardant** (non FR) panels. Both are available in a wide variety of profiles and in many types 1230 thru 830 and have a nominal weight of 12 oz. thru 8 oz. per square foot respectively.

Acryloy and CR-Acryloy panels are a composite matrix of polyester resin and chopped strand fiberglass reinforcement. This glass reinforcement is multi-directional and provides equal strength in all directions. Although other types of glass reinforcements, such as linear glass, can provide stiffer panel characteristics and longer spanning capabilities, they sacrifice resiliency. The ability to absorb various forces without damage to its structural integrity is critical to the long term performance of FRP panels.

C/W Barrier is an **option** available on both exterior and/or interior surfaces of '30' Series panels. C/W Barrier is the long range solution to better weathering FRP panels and is far superior to highly volatile sprayed on coatings that erode and fade away in a short time.

Resolite Acryloy and CR-Acryloy panels have over 45 years of long term performance history. Acryloy and CR-Acryloy have been utilized wherever corrosion resistance and good weathering characteristics are critical. Installations include steel mills, aluminium production and other nonferrous manufacturing, pickling operations, cooling towers, fertilizer plants, chemical producers, pulp and paper mills, mining operations, water/wastewater facilities and a host of other industrial building applications.

ACRYLOY / CR-ACRYLOY FEATURES

- **Corrosion resistant** - produced with a high quality non-fire rated polyester resin system.
- **Outstanding weathering** - our high quality resin system incorporates acrylic modification and UV stabilizers.
- **Embossed exterior surface** - the exterior surface is embossed creating a resin rich surface for improved performance. The interior surface is smooth.
- **C/W Barrier protection** - OPTIONAL - a protective barrier on exterior and/or interior surfaces that is fused into the resin/fiberglass matrix to give the panel even greater protection against degradation.
- **Types available** - 1230 (12 oz.) thru 830 (8 oz.)
- **Choice of colors** - available in two standard translucent colors - Clear and White; and three standard opaque colors - Stone White, Gray and Beige. Consult Standard Color Guide for more information.
- **Choice of profiles** - 5 standard profiles - 7.2 x 1.5", 7.2D x 1.75", 7 x 1.5", 4.2 x 1-1/16" and 2-1/2 x 1/2". Consult Profile Selection Guide for non-standard profile availability and additional information.
- **Outstanding performance** - backed by over 45 years of case history in the corrosion and industrial market.
- **Load/Span data** - based on full scale tests to simulate actual field conditions.
- **Meets ASTM D 3841** - Standard Specification for Glass-Fiber-Reinforced Polyester Plastic Panels.

Product Description Acryloy / CR-Acryloy '30' Series (continued)

PHYSICAL PROPERTIES

Types Available	1230	1030	830
Nominal Wt., oz./sq.ft.	12 oz.	10 oz.	8 oz.
Nominal Thickness, in.**	.085	.073	.060
Nominal Glass Content	30%	30%	30%

Hardness, Barcol ASTM D 2583	50
Flexural Strength, psi ASTM D 790	27,000
Flexural Modulus, psi ASTM D 790	1.0×10^6
Tensile Strength, psi ASTM D 638	16,000
Coefficient of Expansion (in/in/°F)ASTM D 696	1.5×10^{-5}
Conductivity (K Factor) ASTM C 177	1.04
Dielectric Strength RMS V. @ 60 cycles ASTM D 149	573 V/Mil
Fire Resistance Ignition Point ASTM D 1929	850° F - 900° F
Flame Spread Classification ASTM E 84 (UL 723)	N/A
Flammability ASTM D 635 Average Time of Burning 2.94 cm/min. Building Code Classification CC2 or C2	

** All thickness based on flat material. Nominal thickness varies with profile.

SPECIFICATION (Short Form)

1. Translucent or opaque fiberglass reinforced polymer wall and/or roof panels shall be type _____ (1230 thru 830) corrosion resistant non-fire retardant Resolite Acryloy (translucent) or CR-Acryloy (opaque) as manufactured by Resolite, a United Dominion Company, Zelienople, PA.
2. Glass reinforcement shall be composed of chopped strand glass and shall be approximately 30% by weight. C/W barrier is optional.
3. Resin shall be high quality light stabilized polyester modified with acrylic monomer.
4. Finish shall be embossed exterior/smooth interior.
5. Panel weight shall be nominal _____ (12 oz/sf - type 1230 thru 8 oz/sf - type 830) per square foot in order to comply with the maximum loads and spans recommended by Resolite.
6. Color shall be No. _____ (See Color, Finish, Light Transmission page 12A).
7. Profile shall be _____ (See Profile Selection Guide page 14A, B & C). Length shall be _____.