Acrylite® FF - Colorless Acrylic Sheet

Manufactured by Evonik Cyro LLC. *www.acrylite.net*

GERBER SOLARA ion

GERBER M SERIES

Material Performance Testing

See "Rigid Material Application Notes" and manufacturer's website for specific, detailed guidelines and instructions.

GENERAL INFORMATION

MATERIAL DESCRIPTION

Acrylite® FF acrylic sheet products are economical, provide tight thickness tolerance, high optical characteristics and low stress levels. Acrylite FF sheet is readily available in a variety of standard sizes and thicknesses, in colors and colorless. These sheets are a lightweight, rigid and weather-resistant thermoplastic and are dimensionally stable and resistant to breakage, and can be easily sawed, machined, heat-formed and cemented. They will withstand exposure to blazing sun, extreme cold, sudden temperature changes, salt water spray, etc., and will not deteriorate after many years of service.

RECOMMENDED APPLICATIONS

- Skylights • Window Glazing • Store or P-O-P Displays
- Signs • Window Frames • Optical Displays
- Picture Framing

CAUTIONS

1. Be specific when ordering material as there are many similar materials and finishes, yet performance and results will vary significantly, even among like materials.
2. Be sure to measure dimensions of material prior to printing as they are not always consistent.
3. The following may cause adverse effects on ink adhesion and durability:
   - Failure to acclimate material to ambient conditions for at least 24 hours.
   - Failure to print under recommended ambient conditions.
   - Failure to remove the protective plastic/paper layer 24 hours prior to printing in order to allow proper "outgassing."
   - Neglecting to properly clean the print surfaces. This will allow debris to be visible after printing. Avoid cleaners containing ammonia or alcohol.
4. Acrylite FF is a combustible thermoplastic. It will ignite and burn if placed in an open flame or in contact with any other source of ignition.
5. Ink adhesion increases at higher pass modes (8 Pass > 4 Pass > 2 Pass).

WARNING: Be sure that material is completely flat. Bent edges may cause damage to printheads and/or other hardware. Tape down edges as necessary. Leaning may cause warping.

PERFORMANCE TESTING RESULTS

See "Material Performance Testing Process" document for process explanation and test conditions.

ADHESION TESTING

Tape Test: Level 5, Excellent
Cross-Hatch Test: Level 0, Very Poor

ABRASION RESISTANCE

Level 3, Standard

CHEMICAL RESISTANCE

Level 2, Fair

OUTDOOR DURABILITY

GerberCAT inks are outdoor durable for up to 3 years. Consult material manufacturer for durability of substrate. Testing of application in intended environment is advised.

TESTED PRINT CONDITIONS

AMBIENT TEMPERATURE

70°F (21°C)

AMBIENT HUMIDITY

40%, non-condensing

PRINTER RESOLUTION

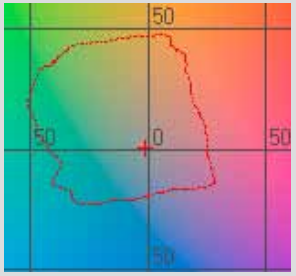
360 dpi

PRINT MODE

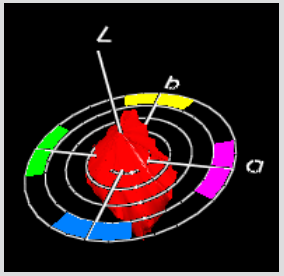
4 Pass, Unidirectional

COLOR GAMUT

2-DIMENSIONAL



3-DIMENSIONAL



MATERIAL HANDLING RECOMMENDATIONS

STORAGE

1. Flat; If leaned, on long (horizontal) edge only.
2. Do not stack vertically.
3. Cool, dry, clean area with stable temperature.

SURFACE PREPARATION

1. Remove protective plastic/paper layer and allow to outgas for 24 hours prior to printing.
2. Print surface should be free and clear of any surface contaminants (i,e, oils, dust, fingerprints, etc.) prior to printing.
3. Clean with a mild soap solution, or a commercially available plastic cleaner and a lint free cloth. To remove grease, oil, or tar deposits, use hexane or kerosene, followed by a soap solution. Avoid cleaners containing ammonia or alcohol.

POST-PRINT

Ink cures enough to be touched immediately without adverse effect. Full cure occurs between 15 minutes and 24 hours dependent upon material and ambient conditions. Cutting, routing, or any additional undertakings should run flawlessly. If any flaking or cracking occurs, allow to sit 24 hours for full cure.

See manufacturer's website for more information.

COLOR MANAGEMENT

RECOMMENDED RENDERING INTENTS

CMYK Vector: Relative colorimetric
CMYK Image: Perceptual
RGB Vector: Relative colorimetric
RGB Image: Perceptual

MATERIAL PROFILES

The recommended profile can be downloaded from the corresponding materials page on the gspinc.com/applications webpage.

NOTE: The OML file contains only the print modes that provide desirable adhesion and print quality.

CAUTION: Failure to manage color settings consistently throughout the entire workflow, from image generation through final print, will result in guesswork and unpredictable and potentially unfavorable end results.

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