GERBER CAT | UV
the next generation UV

Omega-Bond™

Manufactured by Laminators, Inc. *www.laminatorsinc.com*

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

Omega-Bond™ is an economical alternative to other aluminum composite panels; features double-sided painted aluminum bonded to a solid polyethylene core; rigid yet lightweight; extremely flat, durable, and moisture-resistant; solid core composition prevents bowing, warping, swelling, and delamination; can be easily fabricated with standard shop tools to create a variety of shapes that do not require edge sealing.

RECOMMENDED APPLICATIONS

- Digital printing
- Interior and exterior signage
- POP displays and exhibits
- Fascia and canopies
- Scoreboards, billboards, highway signage

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 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. Ensure that 99% isopropyl alcohol is used for cleaning.
   - Using thinners or soaps which may leave a film residue which can affect adhesion. Additionally, cleaners containing silicone can interfere with adhesion and are not recommended.
4. Ink adhesion increases at higher quality modes. (Quality 1 Uni > Production 1 Uni > Performance Uni).

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 3.5, Good/Very Good

ABRASION RESISTANCE

Level 5, Excellent

CHEMICAL RESISTANCE

Level 5, Excellent

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

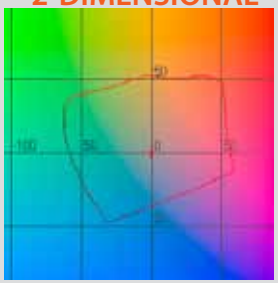
635 x 720 dpi

PRINT MODE

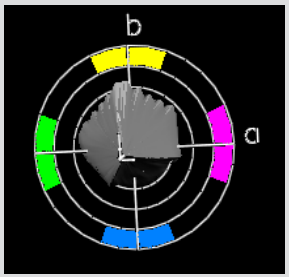
Production 1 Unidirectional

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 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 99% isopropyl alcohol, using a non-colored cloth. Best results have been obtained when applying the alcohol to the wiping cloth rather than directly to the material and wiping in straight line motion rather than circular.

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.

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.

GERBER SCIENTIFIC PRODUCTS