

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

GENERAL INFORMATION

MATERIAL DESCRIPTION

Tekra® Lexan 8B35 Velvet/Matte is Tekra coated Lexan (a registered trademark for SABIC Innovative Plastics', formerly General Electric Plastics, brand of polycarbonate resin thermoplastic) is a one side velvet, one side matte transparent, mar resistant polycarbonate sheet that can be used over LEDs; Excels in optical clarity, printability, impact strength and dimensional stability; Offers high temperature resistance, excellent dimensional stability, and superb workability for secondary processes such as die-cutting, embossing and thermoforming.

RECOMMENDED APPLICATIONS

Overlays, *floor graphics, high-performance labels, backlit signage

*Refer to manufacturer for limitations and liability info.

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. 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 5, Excellent

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.

MATERIAL HANDLING RECOMMENDATIONS

STORAGE

1. 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.

TESTED PRINT CONDITIONS

AMBIENT TEMPERATURE

70°F (21°C)

AMBIENT HUMIDITY

40%, non-condensing

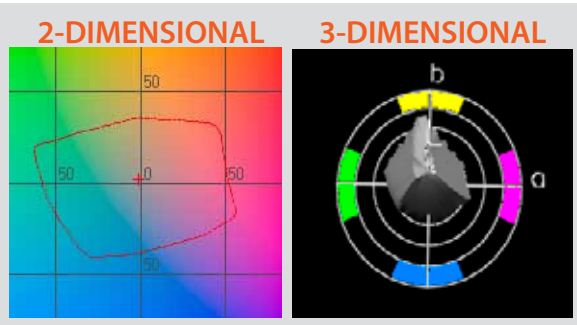
PRINTER RESOLUTION

635 x 720 dpi

PRINT MODE

Production 1 Unidirectional

COLOR GAMUT



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.

