

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

## GENERAL INFORMATION

### MATERIAL DESCRIPTION

Tyvek™ 1073D is tough, durable spunbonded Olefin sheet made from high density polyethylene fibers. It is an extremely versatile material, offering a balance of physical characteristics that combine the best properties of paper, film and cloth: strong, lightweight, flexible, smooth, low-linting, opaque and resistant to water, chemicals, abrasion and aging. These all make it ideal for a broad range of applications. Printable versions are corona (discharge) treated to improve ink and coating adhesion.

### QUALIFIED MATERIAL SPECS

Type: Tyvek 1073D  
Width: 45"  
Weight: 2.20 oz/yd<sup>2</sup>  
Thickness: 7.5 mils

### RECOMMENDED APPLICATIONS

- Wide format applications because of its unique strength-to-weight ratio, its resistance to moisture, abrasion, tears and punctures and its recyclability.
- Interior & Exterior banners

## 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.
  - Neglecting to properly clean the print surfaces. This will allow debris to be visible after printing.
4. DO NOT lean or store horizontally as flat spots and irregularities may occur which can negatively effect end results.
5. Ink adhesion increases at higher pass modes (8 Pass > 4 Pass > 2 Pass).
6. Protect from direct exposure to sunlight because prolonged exposure to UV light will cause a deterioration of physical properties.

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

## 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 4, Good

### 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

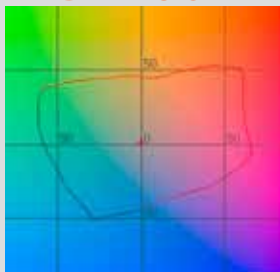
360 dpi

### PRINT MODE

4 Pass, Unidirectional

## COLOR GAMUT

### 2-DIMENSIONAL



### 3-DIMENSIONAL



## MATERIAL HANDLING RECOMMENDATIONS

### STORAGE/MOVING

1. Cool, dry, clean area with stable temperature.
2. Vertically (upright) only, on their ends and in their shipping wrappers.
3. Rolls should be handled carefully with a dolly, stevedore truck or hand truck. Avoid drops or bumps that could cause deformation. Never move a roll of Spunbonded Olefin by turning or rocking it on its end.
4. Core plugs should always be in place when handling rolls.
5. Because of the slippery nature of Spunbonded Olefin, care must be taken when moving.
6. If rolls or sheets of Spunbonded Olefin are to be stored for several months, they should be wrapped in Spunbonded Olefin or polyethylene film.

### SURFACE PREPARATION

1. Print surface should be free and clear of any surface contaminants (i.e. oils, dust, fingerprints, etc.) prior to printing. Wipe with a clean, dry, non-abrasive cloth.

### 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 or any additional undertakings should run flawlessly. If any flaking or cracking occurs, allow to sit 24 hours for full cure. Slower cut speeds yield best results for smoother curves and rounded edges.

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](http://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.

