

# TECHNICAL DATA SHEET

## GF 500 SERIES CUT & CRAFT VINYL

### 3.0 MIL GLOSS COLORED VINYL CLEAR PERMANENT ADHESIVE

GF 500 Series Cut & Craft vinyl contains a selection of 3.0 mil gloss and matte white, black, clear and color films, coated with a permanent acrylic pressure-sensitive adhesive on a 78# clay coated liner. This film is designed for roll-fed plotter cut vinyl graphics as well as sheeted material for home craft applications. This product is recommended for outdoor and indoor uses where a high-quality marking film-requiring flexibility, durability and resistance to sunlight is required. These films can be used for architectural signage, commercial-retail signage, point-of-purchase graphics and vehicle decals. The tight release liner allows for easy weeding and is compatible with most application tapes.

PRODUCT NAME	500 SERIES
<b>FILM</b>	
Film Type	Colored Intermediate Vinyl
Film Thickness (mils/μm)	3.0 / 76 (+/- 10%)
Film Weight (gsm)	104
Gloss (60°)	≥80
Opacity (%)	94 (average - varies by color)
Tensile Strength (lbs/in)	MD ≥ 3500 / CD ≥ 3500
Elongation (%)	MD ≥ 200 / CD ≥ 200
Dimensional Stability (FTM 14)	MD ≤ 2.00 mm / CD ≤ 1.20 mm
<b>ADHESIVE</b>	
Adhesive Type	Emulsion Acrylic
Adhesive Thickness (mils/μm)	.08-1.0 / 20-25
Adhesive Color	Clear
Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 15 min	2.4 / 11
Peel Strength on Stainless Steel (lbs/in) / (N/25mm) 24 hrs	4.0 / 18
<b>LINER</b>	
Liner Weight (#/gsm)	78 / 127
Liner Type	White Clay Coated Kraft
Liner Thickness (mils/μm)	4.5 / 114
Release Force @ 360" / min (g/2")	30-70
<b>PERFORMANCE GUIDANCE</b>	
Application Temperature	≥ +40 °F
Service Temperature	-40 °F to 180 °F
Shelf Life	Up to 1 year
Storage Temp / Rel. Humidity	70 °F / 50%
Outdoor Durability	up to 5 years

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PRODUCT SNAPSHOT	APPLICATIONS	INK TYPE
<b>APPLICATION</b> <input type="radio"/> WET APPLY <input checked="" type="radio"/> DRY APPLY <input checked="" type="radio"/> HOT STAMP <input checked="" type="radio"/> DIE CUTTABLE <input checked="" type="radio"/> HOT KNIFE <input checked="" type="radio"/> THERMAL DIE <input checked="" type="radio"/> FLATBED CUTTABLE <input checked="" type="radio"/> CONTOUR CUTTABLE	<input checked="" type="radio"/> POP/RETAIL <input type="radio"/> WALL <input checked="" type="radio"/> WRAP <input checked="" type="radio"/> WINDOW <input type="radio"/> FLOOR <input type="radio"/> TRANSLUCENT <input checked="" type="radio"/> FLEET (FLAT SURFACE) <input checked="" type="radio"/> GENERAL SIGNAGE <input checked="" type="radio"/> OUTDOOR	<input type="radio"/> SOLVENT <input type="radio"/> ECO-SOLVENT <input type="radio"/> LATEX <input checked="" type="radio"/> UV CURABLE <input checked="" type="radio"/> THERMAL TRANSFER <input checked="" type="radio"/> SCREEN <input type="radio"/> OFFSET (UV CURABLE) <input type="radio"/> OFFSET (CONVENTIONAL)
<b>SUBSTRATES</b> <input checked="" type="radio"/> OEM PAINTED METAL <input checked="" type="radio"/> GLASS <input type="radio"/> LOW-ENERGY SURFACES <input checked="" type="radio"/> SMOOTH SURFACES <input checked="" type="radio"/> ACRYLIC		

### FAQ

What types of transfer tape should I use with the GF 500 Series?	In most instances a medium tack application tape should work, such as Transferite® 6582. For multiple color alignments, we would recommend using a frosted matte tape such as Transferite® 1510 or a clear tape such as Transferite® Ultra® 1310 Clear.
Can I use GF 500 Series Gloss Calendered Vinyl on vehicles?	GF 500 Series has a permanent emulsion acrylic adhesive and can be used in flat-surface short-term vehicle applications. Typically a cast or high-performance colored solvent adhesive vinyl will be used for long-term vehicle graphics.
What is the expected exterior lifetime of these products?	Different films and pigments will fade at different rates, but what our lab and extended life testing reveals is that there will be minimal color fade for up to 5 years under normal exposure conditions. GF 503 Transparent and GF 504 Matte Clear are up to 6 months under normal exposure conditions.
I used some GF 512 Victorian Blue to apply cut letters to wine glasses; are the Cut & Craft products dishwasher safe?	It is recommended that dishware with decals be hand washed with mild soap and water. The vinyl and adhesive can be impacted by high heat and extended exposure to water and cleaners. However, the adhesive and vinyl have excellent resistance to humidity.