

TECHNICAL DATA SHEET

Greenstar CV1 Outdoor Calendered Vinyl is our latest 5-year Intermediate Performance Vinyl (IPV), specially formulated for customized sign creation. All colors come in a high gloss finish, with black and white also available in a matte finish for excellent visibility.

Greenstar CV1 Outdoor Calendered Vinyl weeds easily and is great for general purpose interior/exterior graphics of all types including signs, banners, and window graphics. An excellent vinyl to cut, weed and transfer, Green Star CV1 vinyl has an outdoor lifespan of up to 5 years (3 years for metallic vinyl) and is made in USA.

PRODUCT NAME	GREENSTAR CV1
FILM	
Film Type	Calendered Intermediate Vinyl
Film Thickness (mils/ μ m)	3.0 / 76 (+/- 10%)
Film Weight (gsm) 104	104
Gloss (60°)	>80
Opacity (%) 94 (average - varies by color)	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
ADHESIVE	
Adhesive Type	Emulsion Acrylic
Adhesive Thickness (mils/ μ m)	.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
LINER	
Liner Weight (#/gsm)	78 / 127
Liner Type	White Clay Coated Kraft
Liner Thickness (mils/ μ m)	4.5 / 114
Release Force @ 360" / min (g/2")	30-70
PERFORMANCE GUIDANCE	
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
<p>FILM</p> <ul style="list-style-type: none"> • Dry Apply • Hot Stamp • Die Cuttable • Hot Knife • Thermal Die • Flatbed Cuttable • Contour Cuttable 	<ul style="list-style-type: none"> • POP/Retail • Wrap • Window • Fleet (Flat Surface) • General Signage • Outdoor 	<ul style="list-style-type: none"> • UV Curable • Thermal Transfer • Screen
<p>SUBSTRATES</p> <ul style="list-style-type: none"> • OEM Painted Metal • Glass • Smooth Surfaces • Acrylic 		

FAQ

What types of transfer tape should I use with Greenstar CV1?	In most instances a medium tack application tape should work, such as Greenstar Layflat Classic. For multiple color alignments, we would recommend using a clear tape such as Greenstar Layflat Clear.
Can I use Greenstar CV1 Gloss Calendered Vinyl on vehicles?	Greenstar CV1 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. Greenstar CV1 Transparent and Matte Clear are up to 6 months under normal exposure conditions.
I used some Greenstar CV1 to apply cut letters to wineglasses; 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.