

Product

6800 Cast Fluorescent
Vinyl Series

Product Description

Short-term cast fluorescent vinyl designed for 6 month outdoor use. Available in 6 bright cadmium-free, fluorescent colors, the film is coated with a permanent solvent acrylic adhesive and protected with an 78# White Kraft liner. Excellent for short-term promotional use on windows, P.O.P., display panels, exhibit walls and screen printed decals.

Typical Applications

- Windows
- P.O.P.
- Exhibit walls
- Display panels
- Screen printed decals

Physical Properties

Property	Typical Values	Test Method
Thickness in inches	0.0035 (90)	ASTM D-645
Peel Adhesion 180° on Stainless Steel - 30 min. - 24 hr.	3.2 (14) 4.5 (20)	ASTM D-903
Face Material Data, 68°F (20°C) Tensile strength lb. /in. (N/m) Elongation % at break	>8.57 (1500) >80%	DIN 53455
Dimensional Stability (shrinkage) in Percent	< 0.25	10" x10" Sample 48 hours @ 158°F Bonded to aluminum
Temperature Ranges Application: End Use:	40° to 104°F (5° to 40°C) -50° to 225°F (-45° to 107°C)	

- Values given are typical and are not necessarily for use in specification.

Durability

Indoor and 6 months outdoors. This use-life estimate is based upon accelerated age studies. Please note that exposure to severe temperatures, ultra-violet light and also tropical, sub-tropical or desert regions will cause more rapid deterioration. This also applies to polluted areas, high altitude and south facing exposure.

Printability

Printability is not warranted. However, we have created the following guidelines if printing is desired:

- 1) For **screen printing**: Limit the screen ink to two or three colors. While the liner is an excellent liner, it is designed for plotter cutting. Sometimes too much heat may result in the liner 'waving' a little which can cause registration issues when additional colors are used. Mactac recommends Nazdar 3500 series UV cured screen inks.
- 2) If printing **UV inkjet**; make sure the vacuum (if flatbed) is strong enough to hold the liner down tight. Typically it is, but vacuums are notoriously weak, especially as they age.
- 3) If printing with **solvent inks**; limit the inks to a total of 270% saturation. Use a generic ICC profile for either 2 mil cast or 3.5 mil calendared vinyl films as a starting point.
- 4) **Thermal transfer** printing: all MACmark **gloss** films are thermal transfer printable. We strongly recommend the use of a web cleaner prior to printing due to the potential presence of paper dust from the white kraft paper liner.

Shelf Life

Two years when stored at 75°F (24°C) and 50% relative humidity or less.

Chemical Resistance

A sample is prepared in the same manner as for the Chemical Resistance Test and is immersed in the test fluid followed by drying at each stage.

Test Fluid	Observation
Gasoline (30min)	No Effect
Distilled Water (24 hrs.)	No Effect
SAE 20 Motor Oil (1 hr.)	No Effect
10% HCL (10min)	No Effect
10% NH ₄ OH (10 min)	No Effect

Limitations

Application of 6800 Fluorescent is made easier if **Mactac** application tape is used. It is strongly recommended not to wash the decorated surfaces within 48 hours after application.

- 1) **The user is responsible for determining the product's suitability, including adhesion and if needed, removal characteristics when used in applications other than listed specifically in this Performance Guide.**
- 2) **If there are any questions about applications, please contact your Mactac sales representative to discuss your requirements for recommendations.**
- 3) **If this is a printed Performance Guide it is an uncontrolled document. Please check the Mactac website for the latest, most up-to-date version.**

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