



# Film Products

## Product Data Sheet

Economy UV 5 mil PVC Film - Textured Matte TM5		September 2021
<b>Product Description</b>	PVC film/ Acrylic copolymer/ Siliconized paper	
<b>Face Material</b>	Calendared Monomeric Polyvinyl Chloride	
	Thickness	5 mil (125 $\mu$ ) $\pm$ 5%
	Weight (gsm)	165gsm $\pm$ 5%
	Gloss Level (method: ASTM D-523 - 85 $^{\circ}$ )	6 - 10 GU
<b>Adhesive</b>	Permanent clear Solvent-based Acrylic	
	pH-value	approx. 7.0 Neutral
	Coating thickness	1.0 mil (25 $\mu$ ) $\pm$ 5%
	180 $^{\circ}$ Peel Adhesion (kg/inch) (method: PSTC-1)	>1kg/inch
	0 $^{\circ}$ Shear strength (hr./inch) (method: PSTC-7)	>54hrs/inch
<b>Release Liner</b>	White Siliconized paper	
	Weight	70# (105gsm) $\pm$ 5%
<b>Heat Resistance</b>	Temperature range	+5 $^{\circ}$ C to 80 $^{\circ}$ C / 40 $^{\circ}$ F to 176 $^{\circ}$ F
<b>Application temperature</b>	Temperature range	+15 $^{\circ}$ C to 50 $^{\circ}$ C / 59 $^{\circ}$ F to 122 $^{\circ}$ F
<b>Storage conditions</b>	18 $^{\circ}$ C to 25 $^{\circ}$ C / 64 $^{\circ}$ F to 77 $^{\circ}$ F; 50-60% relative humidity	
<b>Shelf life</b>	1 year when stored under proper conditions in original package	
<b>Durability</b>	Vertical Exposure	Up to 2 years outdoors
	Floor Graphics	Short Term Indoor use

Monomeric PVC laminating film is suitable for short to medium term indoor or outdoor signage on flat or slightly curved surfaces with vertical exposure and application temperatures of 40 $^{\circ}$  F to 176 $^{\circ}$  F. Durability of the laminate (whether Monomeric or Polymeric) depends on proper drying/curing/outgassing of the ink. Printed PVC must be allowed to dry for 24-48 hours at 70 $^{\circ}$  F prior to lamination to allow residual solvent to evaporate. Failure to do so may result in delamination, tunneling and shrinkage of the PVC and or adhesive failure.

The amount of dry time required is a function of the amount of ink applied, the image printed, relative humidity, printing conditions, etc. and all prints are not the same nor dry at the same rate. There may still be solvent in the ink that has not completely dried at the time of lamination. Although all PVC outgases, in some cases this process is accelerated by the presence of excess solvent in the ink and heat from high UV exposure.

These Durability estimates apply only to the laminating film not to the printed image. They are based on accelerated aging tests and outdoor exposure, under conditions experienced in vertical exposure and in "normal" temperate climates. Exposure to severe humidity and ultraviolet light as in Southern States or desert regions will cause rapid deterioration. This also applies to polluted areas, high altitude, horizontal and/ or south-facing exposure where durability may be divided by 2. Because of these varying climate conditions there is no standard outdoor life durability; it is only a reference for choosing the proper product.

#### Important Notice

Gfp products are warranted to be free from defects in material and workmanship (see Gfp Product Warranty statement). Product information is based on research the company believes to be reliable; however, such information is given without guarantee and does not constitute a warranty. Purchasers should undertake their own evaluation of the product prior to use to independently determine the suitability of the product to their specific application and the purchaser shall assume all risks regarding such use.

