



Film Products

Product Data Sheet

Intermediate UV 3 mil PVC Film - Gloss

September 2021

Product Description	PVC film/ Acrylic copolymer/ Siliconized paper
Face Material	Calendared Polymeric Polyvinyl Chloride
	Thickness 3.2 mil (80 μ) \pm 5%
	Weight (gsm) 105gsm \pm 5%
	Gloss Level (method: ASTM D-523 - 60 $^{\circ}$) > 90 GU
Adhesive	Permanent clear Solvent-based Acrylic
	pH-value approx. 7.0 Neutral
	Coating thickness 1.0 mil (25 μ) \pm 5%
	180 $^{\circ}$ Peel Adhesion (kg/inch) (method: PSTC-1) >1kg/inch
	0 $^{\circ}$ Shear strength (hr./inch) (method: PSTC-7) >54hrs/inch
Release Liner	White Siliconized paper
	Weight 70# (105gsm) \pm 5%
Heat Resistance	Temperature range +5 $^{\circ}$ C to 80 $^{\circ}$ C / 40 $^{\circ}$ F to 176 $^{\circ}$ F
Application temperature	Temperature range +15 $^{\circ}$ C to 50 $^{\circ}$ C / 59 $^{\circ}$ F to 122 $^{\circ}$ F
Storage conditions	18 $^{\circ}$ C to 25 $^{\circ}$ C / 64 $^{\circ}$ F to 77 $^{\circ}$ F; 50-60% relative humidity
Shelf life	1 year when stored under proper conditions in original package
Durability	Up to 5 years, vertical exposure outdoors

Polymeric PVC laminating film is suited for medium to long 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. Polymeric products are more suited for outdoor applications than the Monomeric because they have higher quality plasticizers and more UV blocking additives, which evaporate more slowly than Monomeric PVC. 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.



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