



Film Products

Product Data Sheet

Linerless PSA Film - 2 mil Polypropylene September 2021

Product Description	Polypropylene laminating film with optically clear pressure sensitive adhesive		
Face Material	Biaxially Oriented Polypropylene (BOPP)		
	Thickness	2 mil (50µ)	
	Gloss Level (method: ASTM D-523 - 60°)	Gloss: 75 GU	Matte: 7 GU
Adhesive	Permeant Optically clear Water-based Acrylic		
	pH-value	approx. 7.0 Neutral	
	Coating thickness	0.8 mil (20µ)	
Total Thickness	2.8 mil (70µ)		
Release Liner	NONE		
Adhesive to steel	method: ASTM D3330	Gloss: 20 oz/in (0.56 kg/24mm)	Matte: 16.5 oz/in (0.46 kg/24mm)
Tensile Strength	method: ASTM D3759	35 lb./in (15.8 kg/24mm)	
Elongation	method: ASTM D3759	Gloss: 120%	Matte: 140%
Application Temp	Minimum 50° F (10° C)		
Laminator Temp	95 -105° F (35 – 41° C) Higher temperature for UV prints		
Applications	Solvent, Eco-solvent, Latex based & UV ink jet prints on flexible or rigid substrates		
Shelf life	1 year when stored at 18° to 25°C (60° to 80° F) at 40-65% humidity in original package		
Durability	Up to one (1) year, vertical exposure outdoors		

Polypropylene laminating film is suitable for short-term indoor signage on flat or slightly curved surfaces with vertical exposure and application temperatures of 40° F to 176° F. Durability of the laminate depends on proper drying/curing/ outgassing of the ink. Printed PVC must be allowed to dry for 24-48 hours at 70° 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. 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.

