

LP3912 (Gloss/Matte)

Laminating Film for Protecting Digitally Printed Image

Description:

LP3912 is a high gloss calendered PVC film for protecting digitally printed image. It provides protection from damaging from UV radiation, scratch and abrasion. Moreover, it offers enhanced colors and durability.

Advantage:

- Protecting from UV rays, scratch and abrasion
- Long durable calendered film (5years)
- Excellent printing performance
- Enhancing color of image
- Excellent weather resistance : Solvent Based Acrylic Adhesive
- Variable Width : 105cm(41”),137cm(54”), 152cm(60”)

Areas of use:

- Solvent inkjet printing: Vutek, Arizona, Mimaki, Mutoh, Roland, DGI etc
- Indoor and outdoor protection of large format digital image

Characteristics:

Item	Description
Film	90 microns transparent film with gloss finish
Thickness	120 microns with adhesive (± 10 %)
Adhesive	Acrylic based pressure sensitive (Solvent based)
Adhesive color	Clear
Liner	Double sides PE coated paper
Application surfaces	Flat, rounding etc
Application temp.	≥ 10℃ (18 to 25℃ optimum)

Durability:

Durability is based on field experience and exposure tests in South Korea. Outdoor durability is 5 years when properly processed and applied (unprinted film vertical exposure)

- Accelerated: 2000hr minimum

As determined in an Atlas Weather-o-meter conforming to ASTM G-26-77, section4, using the standard dual cycle of 102minutes of light at 63℃ (145°F) and 18minutes of water spray at 63℃ (145 °F)

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- Accelerated: 1000hr minimum
As determined in a QUV weathering tester using UV light(UVB 313 bulbs) at 63 °C (145 °F)

Shelf Life:

Shelf life is 1 year from factory shipment

Storage condition: Free from excessive moisture, temperature, direct sunlight (20 °C x 50% R.H)

Physical Properties:

Property	Metric units	Test Method
Thickness (Including adhesive)	120 μm ± 10	Micrometer
Tensile strength	≥ 1.8kg/cm ²	ASTM 882
Elongation	≥ 100%	ASTM 882
Peel adhesion(24hrs)	1,200g/in	180 peeling PSTC-1
Service temp. range	-25 °C ~ 82 °C	Film applied Al panels 24hrs prior test
Application temp	≥ 10 °C	18 to 25 °C optimum, on clean substrate
Opacity	Tt >85	Haze Meter (Tt: Transmission)
Gloss	60 ↑	@60, in Machine Direction
Matte	10 ↓	@60, in Machine Direction
Dimensional Stability	Max 0.5mm	Adhered to Aluminum Plate, Length Direction (80 °C Oven, 24hr , Average)
Release liner thickness	0.14mm	

Fabrication

Laminating

No heat is required. It can be used most squeeze roll laminators. Keep the film flat during lamination.

Warranty:

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