

Solvent Inkjet Film LD383TG

Dated: 03/30/09

Description:

LD383TG is a calendered PVC vinyl with LG Hausys's AiRFREE™ technology. It's designed for solvent-based inkjet printing and guarantees up to 3-years outdoor durability. AiRFREE™ technology allows trapped air to be released during application. AiRFREE™ is LG Hausys's proprietary technology that utilizes embossing patterns on the release liner, making it easier to remove trapped bubbles and increasing overall efficiency and productivity.

Advantage:

- 3years durable calendered film
- Excellent printing performance
- Dimensional stability and performance under a wide range of physical and climatic conditions
- Excellent weather resistance: Solvent based acrylic adhesive (Repositionable Type)
- Liner: Super flat, double side PE coated paper

Areas of use:

- Solvent inkjet printing: Vutek, Arizona, Mimaki, Mutoh, Roland, DGI etc.
 - Outdoor display, sign, exhibition stand, automotive advertising
- ⇒ The films conform well to flat and seamed surfaces, when processed and applied according to LG recommendations.

Characteristics:

Item	Description
Film	80 microns opaque film with gloss finish
Thickness	110 microns with adhesive ($\pm 10\%$)
Adhesive	Acrylic based pressure sensitive(Solvent based)
Adhesive color	Grey
Liner	Double side PE coated paper
Application surfaces	Flat, slightly curved surfaces
Application temp.	≥ 10 (18 to 25 optimum)

Durability:

Durability is based on field experience and exposure tests in South Korea. Outdoor durability is 3 years when properly processed and applied (unprinted film vertical exposure).

Shelf Life:

Shelf life is 1 year from factory shipment.

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

Physical Properties:

Property	Metric Units	Test Method
Thickness (Including adhesive)	110 $\mu\text{m} \pm 10$	Micrometer
Tensile strength	$\geq 1,800\text{g}/\text{cm}^2$	ASTM 882
Elongation	$\geq 100\%$	ASTM 882
Peel adhesion(24hrs)	$\geq 1,400\text{g}/\text{in}$	180 peeling PSTC-1
Service temp. range	-25 ~ 82	Film applied Al panels 24hrs prior test
Application temp.	≥ 10	18 to 25 optimum, on clean substrate
Opacity	Tt 10	Haze Meter (Tt: Transmission)
Gloss	60	@60, in Machine Direction
Release liner thickness	0.14mm	

Fabrication:

Printing

The film can be printed with solvent based ink. For the outdoor durability, it must be printed with a pigmented ink in accordance with the supplier recommendations.

Warranty:

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