

LD593TM

Solvent Inkjet Film

Description

LD593TM is a thin calendered PVC film with LG Hausys's AiRFREE™ technology. It's designed for solvent-based inkjet printing and guarantees up to 5-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.

Features

- 5years 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

Application

- 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	50 microns opaque film
Thickness	75 microns with adhesive (± 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 5 years when properly processed and applied (unprinted film vertical exposure).

LG Hausys Sign & graphic materials

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	Specification	Test Method
Thickness (Including adhesive)	75µm ± 10%	Micrometer
Tensile strength	≥ 1.8kg/cm	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 ≤ 20	Haze Meter (Tt: Transmission)
Gloss	10 ↓	@60, in Machine Direction
Dimensional Stability	Max 0.5mm	Adhered to Aluminum Plate, Length Direction (80 °C Oven, 24hr , Average)
Release liner thickness	0.15mm ± 10%	Micrometer

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