

LD383T – Monomeric Digital Print Vinyl

Description

Print LD383T is a white opaque Gloss PVC film with AiRFREE™ technology for solvent inkjet printing. This is designed to meet high resolution printing with excellent color. AiRFREE™ technology allows trapped air to be released during application. AiRFREE™ is LG Hausys' proprietary technology that utilizes embossing patterns on the release liner, making it easier to remove trapped bubbles and enhancing adhesion.

Features

- 4 years durable calendared 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)
- Release liner: 83# Super flat, double side PE coated paper

Areas of use

- Solvent inkjet printing: Vutek, Arizona, Mimaki, Mutoh, Roland, SEIKO, HP etc.
- Outdoor display, sign, exhibition stand, automotive advertising

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.

Compatible Products

- LG Protective Laminate: LP3812
- LG Protective Laminate: LP3842
- LG Protective Laminate: LP40000
- LG Protective Laminate: LP41000

Characteristics

Item	Description
Film	0.08 mm opaque film with gloss finish
Thickness	0.11 mm with adhesive ($\pm 10\%$)
Adhesive	Acrylic based pressure sensitive (Solvent based)
Adhesive color	Grey
Liner	83# Double side olefin coated paper
Application surfaces	Flat, slightly curved surfaces
Application temp.	$\geq 10^{\circ}\text{C}$ (18 to 25°C optimum)

Durability

Durability is based on field experience and exposure tests in South Korea. Outdoor durability is 4 years when properly processed and applied (unprinted film vertical exposure).

Accelerated: 1200 hr minimum

As determined in an Atlas Weather-o-meter conforming to ASTM G-26-77, section 4, using the standard dual cycle of 102 minutes of light at 63°C and 18 minutes of water spray at 63°C.

Accelerated: 600 hr minimum

As determined in a QUV weathering tester using UV light(UVB 313 bulbs) at 63°C.

Shelf Life

Shelf life is 1 years 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)	110 µm ± 10	Micrometer
Tensile strength	≥ 1.8 kg/cm ²	ASTM 882
Elongation	≥ 100 %	ASTM 882
Peel adhesion (24hrs)	1,400 g/in ± 100	180 peeling PSTC-1
Service temp. range	-25°C ~ 82°C	Film applied Al panels 24 hrs prior test
Application temp.	≥ 10°C	18 to 25°C optimum, on clean substrate
Opacity	Tt ≤ 10	Haze Meter (Tt: Transmission)
Gloss	60 ↑	at 60°, in Machine Direction
Release liner thickness/weight	0.14 mm / 135 g/m ²	

ICC-Profile

ICC Profiles for this product are available for download at <http://sign.lghausys.eu/en/ld383t>.

Warranty

The information provided on this sheet represents typical properties and does not constitute a specification. No liability will be accepted for errors and omissions and in no circumstances shall LG Hausys Ltd. be liable for any loss or injury arising directly or as a consequence of the publication of this data sheet. All LG Hausys vinyl sold subject to our conditions of sale. LG Hausys also retains the right to change sizes and specifications of products without prior notice.

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