

## LD381T – Monomeric Digital Print Vinyl

### Description

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LD381T is a white opaque glossy PVC film with LG Hausys' AiRFREE™ technology for solvent inkjet printing. LD381T is exceptionally designed to meet high resolution printing with quality results. AiRFREE™ is LG Hausys' proprietary technology that utilizes embossing patterns on the release liner, making it easier to remove trapped bubbles and increasing overall efficiency and productivity.

### Features

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- Outdoor Durability: 3 years
- Excellent printing performance
- Dimensional stability and performance under a wide range of physical and climatic conditions
- Excellent weather resistance: Solvent based acrylic adhesive (Permanent Type)
- Liner: Super flat, double side olefin coated paper (130g/m<sup>2</sup>)
- 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.
- Shelf Life: 1 year

### Converting Methods

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#### Printing

The film can be printed with solvent-based ink. For outdoor applications, it must be printed with pigmented ink in accordance with the supplier's recommendations.

#### Cutting

Use one of these cutting methods

- Sharp knife, Cold steel rule die, Razor blade

### Compatible Products

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

### Durability

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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).

### Shelf Life

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Shelf life is 1 year from factory shipment.

### Storage condition

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

### Physical Properties

Property	Metric Units	Test Method
Thickness (Including adhesive)	130 $\mu\text{m} \pm 10 \%$	Micrometer
Tensile strength	$\geq 1.8 \text{ kg/cm}^2$	ASTM 882
Elongation	$\geq 100 \%$	ASTM 882
Peel adhesion (24 hrs)	$\geq 1,600 \text{ g/in}$	180 peeling PSTC-1
Service temp. range	-45°C ~ 82°C	Film applied Al panels 24 hrs prior test
Application temp.	$\geq 10^\circ\text{C}$	18 to 25°C optimum, on clean substrate
Opacity	$Tt \leq 10$	Haze Meter (Tt: Transmission)
Gloss	60 $\uparrow$	at 60°, in Machine Direction
Release liner thickness/weight	0.14 mm / 130 g/m <sup>2</sup>	

### ICC Profiles

ICC Profiles for this product are available for download at <http://sign.lghausys.eu/en/ld3810>.

### 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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