

LD393T – Polymeric Digital Print Vinyl

Description

Print LD393T 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

- 5 years durable calendared film(Premium grade)
- 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)
- Release liner: 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

Converting Methods

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: LP3912
- LG Protective Laminate: LP3942

Characteristics

| Item | Description |
|----------------------|---|
| Film | 81 micron opaque film with gloss finish |
| Thickness | 105 micron with adhesive (± 10 %) |
| Adhesive | Acrylic based pressure sensitive(Solvent based) |
| Adhesive color | Grey |
| Liner | 83 lb Double side olefin coated paper |
| Application surfaces | Flat, slightly curved surfaces |
| Application temp. | ≥ 10°C (18 to 25°C 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: 2000 hr minimum

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

Accelerated: 1000 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) | 105 µm ± 10 % | Micrometer |
| Tensile strength | ≥ 1.8 kg/cm ² | ASTM 882 |
| Elongation | ≥ 100 % | ASTM 882 |
| Peel adhesion (24 hrs) | ≥ 1,600 g/in | 180 peeling PSTC-1 |
| Service temp. range | -45°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 Profiles

ICC Profiles for this product are available for download at <http://sign.lghausys.eu/en/ld393t>.

Warranty

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