

## LD8210 – Cast Digital Print Vinyl

### Description

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LD8210 is a white opaque gloss PVC Cast film for solvent inkjet printing. This is designed to meet high resolution printing with excellent color.

### Features

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- 8 years durable cast film (polymeric grade)
- 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 (100 g/m<sup>2</sup>)

### Areas of use

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- 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.

### Converting Methods

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#### 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

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- LG Protective Laminate: LP80990
- LG Protective Laminate: LP90990
- LG Protective Laminate: LP80994
- LG Protective Laminate: LP90994
- LG Protective Laminate: LP89000

### Characteristics

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Item	Description
Film	60 micron translucent film with glossy finish
Thickness	90 micron with adhesive ( $\pm 5\%$ )
Adhesive	Acrylic based pressure sensitive(Solvent based)
Adhesive color	Grey
Liner	Double side olefin coated paper
Application surfaces	Flat, slightly curved surfaces
Application temp.	$\geq 10^{\circ}\text{C}$ (18 to 25 $^{\circ}\text{C}$ optimum)

### Durability

Durability is based on field experience and exposure tests in South Korea. Outdoor durability is 8 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 18minutes 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 year 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)	90 µm ± 5 %	Micrometer
Tensile strength	≥ 1.5 kg/mm <sup>2</sup>	ASTM 882
Elongation	≥ 100 %	ASTM 882
Peel adhesion (24 hrs)	1,500 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
Gloss	10 ↓	at 60°, in Machine Direction
Release liner thickness/weight	0.18 mm / 100 g/m <sup>2</sup>	

### ICC Profiles

ICC Profiles for this product are available for download at <http://sign.lghausys.eu/en/ld8210>.

### Warranty

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