

## LG Hausys sign & graphic materials

### Product Warranty and Installation Bulletin for LP3812 Calendered Laminating Film for Protecting Digitally Printed Image

#### Product Description

LD3812 is a 3.5 mil calendered PVC film for protecting digitally printed image. It provides protection from damaging from UV radiation, scratch and abrasion. Moreover, it offers enhanced colors and durability.

#### Physical Properties

Outdoor Durability	Up to 3 years with proper printing, lamination, and application	
Application Surface	Laminating of digital printing image	
Tensile Strength	1.8kg/ cm <sup>2</sup>	ASTM 882
Elongation	100%	ASTM 882
Peel Adhesion	1,200g/in	180 Peeling PSTC-1
Application Temp	10 °C	18 to 25°C optimum, on clean substrate
Opacity	Tt > 85	Haze Meter (Tt: Transmission)
Gloss product	60 ↑	@ 60°, in machine direction
Matte product	10 ↓	@ 60°, in machine direction
Shelf Life	1 year	Free from excessive moisture, direct sunlight

#### Areas of use

: protection of digitally printed image & Digital image printing

#### Durability:

Durability is based on field experience and exposure tests in South Korea. Outdoor durability is 3 years when properly processed and applied (In case of vertical exposure)

#### Fabrication

Laminating

No heat is required. It can be used most squeeze roll laminators. Keep the film flat during lamination.

Limitation on the Warranty

This warranty does not cover damage caused by (a) failure to follow LG Hausys's recommendations or product data bulletins (available at [www.lghausys.com](http://www.lghausys.com)) and/or (b) manufacturing, installation or removal by untrained or unqualified manufacturers, installers or technicians and/or (c) misuse, abuse, accident, vandalism,

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neglect or mishandling by end user or any other person and/or (d) act of god, such as earthquake, fire, flood and/or (e) war, government action and any other situation that is beyond LG Hausys's control.

This warranty does not cover damage caused by (a) failure to follow LG Hausys's recommendations, (b) mishandling by the end user, or natural disaster.

### **Remedies and Limitation of Liability**

For any product that does not meet the above warranty conditions, upon timely notification, LG Hausys's sole responsibility shall be, at LG Hausys's sole discretion, that LG Hausys will (a) refund the full purchase price of all LG Hausys materials used to produce the graphic, or (b) replace all LG Hausys materials consumed in the manufacture of the graphics.

The replacement graphic or materials will carry only the remaining term of the original graphic or material's warranty period.

EXCEPT AS SPECIFICALLY STATED IN THIS WARRANTY, LG HAUSYS SHALL NOT BE LIABLE FOR ANY OTHER COST, LOSS OR LIABILITY IN ANY WAY RELATED TO THE PERFORMANCE, USE OR INABILITY TO USE ANY OF THE PRODUCTS. LG HAUSYS SHALL NOT BE LIABLE FOR ANY DIRECT OR INDIRECT OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF PROFIT, REVENUE OR LOSS OF BUSINESS CHANCE RESULTING FROM THE PRODUCT OR SERVICE OF LG HAUSYS.

### **Claim Procedure**

End users may contact the distributor or graphic manufacturer who may submit a claim on your behalf. Distributors or Graphic manufacturers are required to submit claims by filing such on-line at [www.lghausys.com](http://www.lghausys.com), describing the claim in detail. If you do not have internet access, call our regional Office.