

Product Data Bulletin: LDJ90DF - Diffusion Film

LG Pressure Sensitive Graphic Film

Dated: 12.2011 Page 1

LDJ90DF – Diffusion Film Film for backlit applications to improve light diffusion

Description

Inkjet Diffusion Cast Film is digital-printable Diffusion Film, translucent properties are improved than current other DPM films, so, it can give more noticeability of digital printed materials during the nighttime with back-lighting.

Advantage

- Better translucent properties than other DPM materials
- · Excellent light-diffusion & good properties of hiding light-source
- Excellent printing performance and flatness
- Excellent weather resistance
- · Outstanding dimensional stability

Areas of use

· Outdoor back-light advertisement (digital printed material) which needs better noticeability

Limitation of Uses

We do not give warranty for this product under circumstance as follows:

- When the surface which material is attached on is contaminated
- When it is used on the surface which is inclined more than 90° in outdoor
- When doing operation under circumstance which humidity and temperature are changed rapidly by unnatural or artificial factor
- When using other film which is not protection film
- · When using cheap LED light which has high emission of UV
- Elongate material more than 150 % during operation

Characteristics

Item	Description	
Film	0.10 mm casting vinyl with gloss finish (± 10 %)	
Thickness	0.135 mm with adhesive (± 10 %)	
Adhesive	Acrylic based pressure sensitive (Solvent based, permanent)	
Adhesive color	White	
Liner	Double side olefin coated paper	
Application temp.	≥ 10°C (18 to 25°C optimum)	
Film removal	Removable with heat and/or chemicals	
Film removal temp.	≥ 10°C (air and substrate temp.)	





Product Data Bulletin: LDJ90DF - Diffusion Film

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Dated: 12.2011 Page 2

Durability

Except for Limitation of Uses, outdoor durability for up to 5 years when properly processed and applied.

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)	135 µm (± 10 %)	Micrometer
Tensile strength	≥ 1.3 kg/cm²	ASTM 882
Elongation	≥ 100 %	ASTM 882
Peel adhesion (24 hrs)	≥ 1.5 kg/in	180 peeling PSTC-1
Applied Shrinkage	≤ 1.0 %	
Service temp. range	-29°C ~ 80°C	Film applied Al panels 24 hrs prior to test

Film Removal

- 1. Heat up the edge of films by using heat gun, hand torch (70°C~90°C).
- 2. Lift up the film from the side which was heated by using knife and remove it.
- 3. When removing materials, the recommended angle between film and attached side is below 90°.

Caution

- 1. Do not remove the materials under low temperature. Below the low temperature(below 10°C), residue can be remained.
- 2. If adhesive is remained after removing the material, please use exclusive use remover. Before working on it, please test on attached side.

Warranty

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