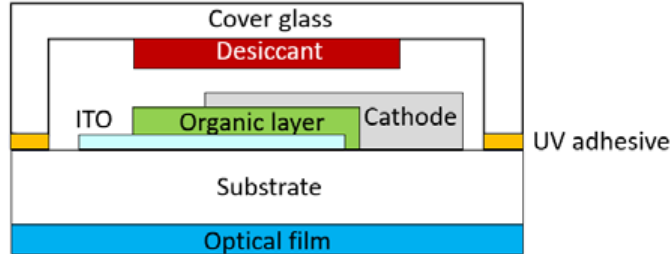


Total Solution for OLED Encapsulation and Out-coupling



Substrate

- High-refractive-index Glass
- Cover Glass
- FTO Glass
- ITO Glass (patterned)

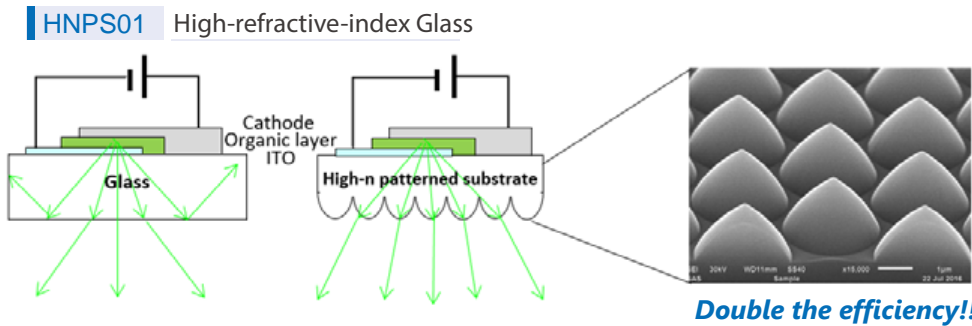
Optical Film

- Microlens Array Film
- Diffuser Film
- OCA Tape

Desiccant / UV Adhesive

- Label Desiccant
- Liquid Desiccant
- UV Adhesive

Substrate



Feature

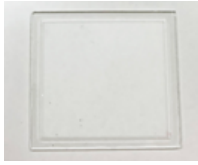
High-refractive-index substrate ($n=1.77$) with micro-lens-array structure can largely enhance the external efficiency of conventional bottom-emission OLED.

Emission area (2cm x 2cm)	CIE (x, y)	Ra	V (V)	CE (cd / A)	PE (lm / W)
Glass / ITO	(0.37, 0.41)	89	7.5	39.1	16.4
High-refractive-index Glass / ITO	(0.40, 0.40)	89	7.0	76.7 (+96%)	34.4 (+110%)

Electrode / Substrate and Sealing

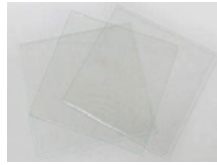
OLED Encapsulation and Out-coupling

LT-Cover Cover Glass



Type : Sandblasted or Etched
 Transmittance : >90% (Etched)
 Dimension : 370*470 *1.1 mm or Customize

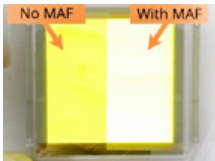
LT-G001 / LT-G002 ITO Glass



	LT-G001	LT-G002
ITO Thickness	: 1200~1600 Å	: 3100~3700 Å
Resistance	: 9~15 Ω / sq	: 4~6 Ω/sq
Transmittance	: >84% (at 550 nm)	: >78% (at 550 nm)
Glass	: Polished soda lime glass	
Dimension	: 370*470*0.7 mm or Customize	

Optical Film

MA1090902 Microlens Array Film(MAF02)



Package : 100 pcs/pack
 Size : 9x9 cm²
 Average Thickness : 275 μm
 Density : 1.3784 g/cm³

Water Absorption	: 0.43 %
Melting Point	: 252.50 °C
Luminous Transmittance: Front MD	99.89%
TD	: 98.75%
Back	: MD 55.10%
TD	: 55.34%
Haze	: FrontMD 88.29%
TD	: 88.26%
Back	: MD 85.03%
TD	: 84.97%

DF1252501 Diffuser Film



Diffusion layer : 15 μm
 PET Thickness : 100 μm
 Adhesive Thickness : 25 μm
 Haze : 89.5%

Emission area 6x6cm: Brightness	
Panel w / o DF	: 474 nits
Panel w / DF	: 625 nits
Enhancement ratio	: 31.8%

*Diffuser film can reduce color shift with angle compared to microlens array film.

OCA100001 OCA Tape



Adhesion to Glass : >1.0 (kg/inch)
 Liner Release - Easy : 5~20 (g/inch)
 Liner Release - Tight : 20~55 (g/inch)
 Transmission : >92%
 Haze : <2%
 Clarity : >90%

Desiccant / Adhesive

LLDY1000001 Label Desiccant



Package : 100pcs/pack
 Dimension : 18x18 mm²
 Thickness : 180 μm
 Sorption Capacity : >50 g/m² (20°C/ 65% RH)

LLDY2000001 Liquid Desiccant



Storage : at 5°C
 Package : 10 g/syringe
 Curing Condition : 120°C/ 3hr or 160°C/ 1hr
 Sorption Capacity : >16wt% (23°C/ 50% RH)
 Viscosity : 123,000cP (shear rate 5s⁻¹)

LT-U001 UV Adhesive



Storage : at 5°C
 Package : 10 g/Syringe
 Curing condition : 6J / cm² (High-pressure Hg lamp)+80°C/ 1h
 WVTR : 4 g/m² / 24h
 Tg : 120°C (by DSC)
 Viscosity : 400~600 Pa.s