

Gas Barrier Encapsulation Materials MS series

Gas Barrier Film MS-F



Relates to our barrier films (MS-F) having a water vapor barrier performance of 10^{-4} g/m²/day or lower and sealing materials. These films contribute to a lower weight and greater flexibility in devices, including organic EL devices (displays and lighting), Next-generation solar cells, and electronic paper.

Composition

High water vapor barrier property

High transparency , low haze

Neutral color

High flexibility

High heat resistance

Optical isotropy (optical isotropic type)

* Excellent barrier properties for gases other than water vapor (H₂, O₂, etc.)

Features

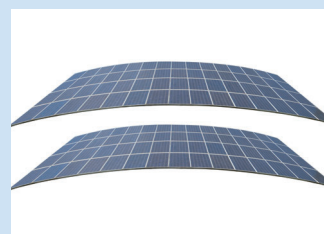
Gas Barrier Encapsulation Materials MS series usage image



Electronic paper (Electronic shelf label, Tablet)



Car roof lighting



Next-generation solar cells

Product Line-up

| Product | MS-F0025P | MS-F0050P | MS-F2050P |
|---|----------------------|----------------------|----------------------|
| Base-Film | PET | | |
| Structure | | | |
| Base film thickness | 25μm | 50μm | |
| Total Transmittance[%] ⁽¹⁾ | 91 | 91 | 88 |
| Haze [%] ⁽²⁾ | 1.0 | 1.0 | 1.0 |
| a* [-] ⁽³⁾ | -0.2 | -0.2 | -0.2 |
| b* [-] ⁽³⁾ | 0.8 | 0.8 | 0.8 |
| WVTR [g·m ⁻² ·day ⁻¹] ⁽⁴⁾ | 6.0×10^{-3} | 6.0×10^{-3} | 5.0×10^{-4} |

(1) Measuring method : JIS K 7136
 (2) Measuring method : JIS K7361-1
 (3) Measuring method : JIS Z8729
 (4) Measuring instrument : AQUATRAN-2 E398 -03 , Test environment: 40°C,90%RH
 The values reported in the data are actual measured values and not guaranteed.