

KIMOTO LIGHT DIFFUSION FILM

LIGHT-UP 100PBU

Application: For use of single diffusion film, monochrome LCD Backlight.
 Feature; Sufficient diffusibility. Also usable on lamp right-under LCD Backlight.
 Structures

Diffusion layer
PET 100 μ
Diffusion layer

Thickness & Optical Properties:

Total Thickness ($\pm 10 \mu$)		125 μ (Base Film 100 μ)		JIS K7130	
Optical Data ($\pm 5\%$)		Front	Back	Back	Front
	Total Light Transmittance	66.0%		66.0%	
	HAZE	89.5%		89.5%	
JIS K6714					

Stabilities

	TLT	H A Z E	Test Method
Before Test	66.0%	89.5%	JIS K6714 Front Back
High Temperature & Humidity (60 , 90%Rh , 500h)	65.4%	89.4%	
High Temperature (80 , 500h)	65.8%	89.4%	
Low Temperature (-20 , 500h)	66.0%	89.5%	
Heat Cycle (-20 ~ 25 ~ 70 ~ 25 , 30min./ea \times 100cycle)	65.7%	89.3%	
UV Resistance (Fade Meter , 200h)	65.6%	89.4%	

Mechanical Properties

		Unit	Result	Test Method
Surface Hardness	Front	H	2H	JIS K5600
	Back		2H	
Thermal coefficient		cm/cm/	2.5×10^{-5}	ASTM D696
Thermal stability	MD	%	-0.30	JIS C2318 (100 30分)
	TD		-0.06	
Tensile Strength	MD	N/mm ²	196	JIS C2318
	TD		201	
Elongation	MD	%	130	
	TD		110	
Electrical Surface Resistivity	Front	/	10^9	JIS K6911
	Back		10^9	

Typical sample test data only. Not guaranteed.