

KIMOTO LIGHT DIFFUSION FILM

LIGHT-UP 100SXE

Application: For 1 or 2 Diffusers for color LCD back light

Structures

Front

Diffusion Coating
PET 100 μ
Back coating & Anti Static

Back

Thickness & Optical Properties:

Total Thickness (± 10 μ)		115 μ (Base Film 100 μ)		JIS K7130
Optical Data (± 5%)		Front	Back	JIS K6714
	Total Light Transmittance	99.0%	75.0%	
	HAZE	89.5%	89.0%	

Stabilities

	TLT	H A Z E	Test Method
Before Test	99.0%	89.5%	JIS K6714 Front Back
High Temperature & Humidity (60 , 90%Rh , 500h)	98.1%	89.5%	
High Temperature (80 , 500h)	98.9%	89.4%	
Low Temperature (-20 , 500h)	99.0%	89.4%	
Heat Cycle (-20 ~ 25 ~ 70 ~ 25 , 30min./ea × 100cycle)	98.9%	89.3%	
UV Resistance (Fade Meter , 200h)	98.1%	89.3%	

Mechanical Properties

		Unit	Result	Test Method
Surface Hardness	Front	H	H	JIS K5600
	Back		HB	
Thermal coefficient		cm/cm/	2.6×10^{-5}	ASTM D696
Thermal stability	MD	%	-0.13	JIS C2318 (100 30min.)
	TD		-0.02	
Tensile Strength	MD	N/mm ²	196	JIS C2318
	TD		206	
Elongation	MD	%	120	
	TD		100	
Electrical Surface Resistivity	Front	/		JIS K6911
	Back		10^{10}	

Typical sample test data only. Not guaranteed.