

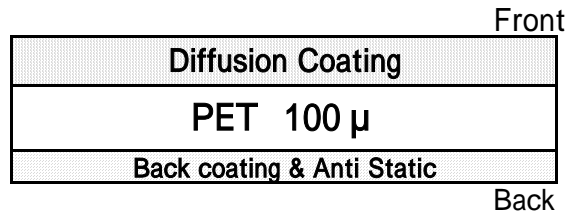
KIMOTO LIGHT DIFFUSION FILM

LIGHT-UP 100NSH

Application: For 1 Diffuser for color LCD back light

Features: More front light condensing vs. LIGHT UP 100PBA,
More diffusibility vs. LIGHT UP 100SXE.

Structures



Thickness & Optical Properties:

Total Thickness (± 10 μ)		115 μ (Base Film 100 μ)		JIS K7130		
Optical Data (± 5%)		Front	Back	Back	Front	JIS K6714
	Total Light Transmittance	95.0%		82.5%		
	HAZE	92.0%		92.0%		

Stabilities

	TLT	HAZE	Test Method
Before Test	95.0%	92.0%	JIS K6714 Front Back
High Temperature & Humidity (60 , 90%Rh , 500h)	94.9%	92.0%	
High Temperature (80 , 500h)	95.0%	92.0%	
Low Temperature (-20 , 500h)	94.9%	92.0%	
Heat Cycle (-20 ~ 25 ~ 70 ~ 25 , 30min./ea x 100cycle)	94.0%	92.0%	
UV Resistance (Fade Meter , 200h)	95.0%	92.0%	

Mechanical Properties

		Unit	Result	Test Method
Surface Hardness	Front	H	H	JIS K5600
	Back		HB	
Thermal coefficient		cm/cm/	2.6 X 10 ⁻⁵	ASTM D696
Thermal stability	MD	%	-0.14	JIS C2318 (100 30min.)
	TD		-0.03	
Tensile Strength	MD	N/mm ²	196	JIS C2318
	TD		206	
Elongation	MD	%	120	JIS C2318
	TD		100	
Electrical Surface Resistivity	Front	/		JIS K6911
	Back		10 ¹⁰	

Typical sample test data only. Not guaranteed.