

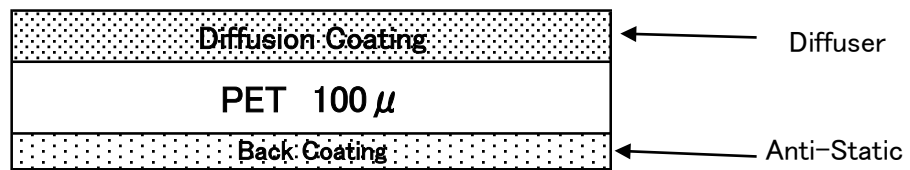
KIMOTO DIFFUSION FILM

LIGHT-UP 100NSH

◎Application: One Diffuser for color and monochrome LCD back lights

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

◎Structures



◎Thickness & Optical Properties :

Total Thickness ($\pm 10 \mu$)		115 μ (Base Film 100 μ)		JIS K713
Optical Data ($\pm 5\%$)		Front \rightarrow Back	Back \rightarrow Front	JIS K671
	Total Light Transmittance	95.0%	82.5%	
	HAZE	92.0%	92.0%	

◎ Stabilities

		TLT	HAZE	
Before Test		95.0%	92.0%	JIS K671 Front \rightarrow B
High Temperature & Humidity (60°C, 90%Rh, 500h)		94.9%	92.0%	
Thermal Stability	Heat (80°C, 500h)	95.0%	92.0%	
	Cold (-20°C, 500h)	94.9%	92.0%	
Heat Cycle (-20~25~70~25°C, 30min./ea \times 100cycle)		94.0%	92.0%	
Light Resistance (Fade Meter, 200h)		95.0%	92.0%	

◎ Mechanical Properties

		Unit	Result	Test Meth
Surface Hardness	Front	H	H	JIS K540
	Back		HB	
Heat Expansion		cm/cm/°C	2.6×10^{-5}	ASTM D6

Heat Shrinkage	MD	%	-0.14	JIS C23
	TD		-0.03	
Tensile Strength	MD	kg/mm ²	20.0	
	TD		21.0	
Elongation	MD	%	120	
	TD		100	
Electrical Surface Resistivity	Front	Ω / \square	∞	JIS K69
	Back		10^{10}	

Typical sample test data only. Not guaranteed.

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back

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