



Yongtek Co., LTD

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Product Specification

- Product name: Optical diffuser plate for LED/CCFL light source
- Product properties:
 1. Higher light transmittance than normal plate
 2. Excellent diffusion effect and haze performance
 3. Evenly diffuse the light source LED/ CCFL
 4. Good dimension stability
 5. Material: Polystyrene (PS)

- Optical specification

No.	Test Item		Test Method	Measuring Equipment	PA-90B
1	Thickness		JIS K6718-2	Micrometer	1.8±0.1mm
2	Light transmittance		JIS K7361-1	Haze meter (NDH-2000)	87±3%
3	Haze		JIS-K7136		90±3%
4	Warpage		Follow customer's diagram		≤1mm
5	Surface pattern		Detector or visual inspection		One sided Pyramid One sided Polished
6	Appear.	Spot	Detector or visual inspection		D > 0.5 mm, none
		Scratch			D > 2 mm, none



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PS Properties

Properties	Unit	Standard	PS
Mechanical Properties			
Izod impact Strength	kgf*cm/cm	ASTM D256	2
Flexural Strength	kgf/cm ²	ASTM D790	946.4
Tensile Strength	kgf/cm ²	JIS K 7113	485
Tensile Elongation	%	JIS K 7113	3
Thermal Properties			
Heat Distortion Temp.	°C	ASTM D648	99.1
Other Properties			
Density	g/ cm ³	ISO 1183	1.06
Water Absorption	%	JIS K 7209	0.021
Flammability	-	UL 94	HB