



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-92B |
|-----|---------------------|---------|-------------------------------|--------------------------|---|
| 1 | Thickness | | JIS K6718-2 | Micrometer | 1.8±0.1mm |
| 2 | Light transmittance | | JIS K7361-1 | Haze meter (NDH-2000) | 92±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 |