

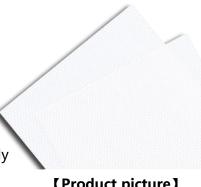
Product Manual

1. Product Name

Ps Structural Diffuser Plate

2. Product Application

The product is suitable for LED lights with direct or side light source which require comfortable lighting and protection, for example, LED eye protection classroom lights, blackboard lights, office lighting and library lights. It is widely used in education, business and household lighting.



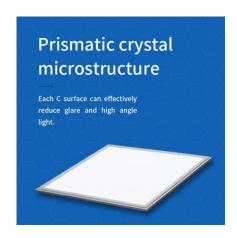
[Product picture]

3. Product Description

- ▲ The product is frosted on one side and uses prismatic crystal microstructure on the other side.
- ▲ The surface with prismatic crystal microstructure clearly delineates light range and makes beam angle even, which improves luminous efficiency and reasonably reduces luminance at the same time. Each C surface can effectively reduce glare and high angle light.
- ▲ Transmittance 40-65%, Haze 89-93%, The product reaches high transmittance and high haze. It uses special light diffusion technology to transform point or line light source into a soft and even surface light source.
- ▲ In addition to the same diffusion function as ordinary diffuser plate, the product has anti-glare function to achieve a more comfortable lighting effect. It can be used with anti-glare plates to further improve UGR.
- ▲ The product is light, pliable and environmentally friendly, and has the properties of low shrinkage below 0.5%, UV resistance, weather resistance, yellowing resistance and safety. It is certified by UL94, REACH and RoHS, and meets North American and EU export standards.

4. Product and application







5. Product size and specifications

| Property | ISO | Unit | Test data | |
|-------------------------------|--------------------|-------------------|----------------|--|
| thickness | Standard value ±5% | mm | 1. 2 | |
| Mechanical Property | | | | |
| Tensile Strength | 180527 | MPa | 25. 5 | |
| Tear trength | 180527 | MPa | 24. 7 | |
| Physical Property | | | | |
| Proportion | IS01183 | g/cm ³ | 1. 05 | |
| UV Resistance | UVA | 240H | UVA Treated OK | |
| High and low temperature test | GB/T 2423.1-2001 | 100 cycles | Qualified OK | |
| Thermal Property | | | | |
| Vst | 1\$0306 | °C | 95. 1 | |
| Heat Distortion Temp | I \$075 | °C | 69. 9 | |
| Fire rating | UL94 | class | FH-4 | |
| Optical Property | | | | |
| Transmittance | GB2410-80 | % | 52. 9 | |
| Haze | GB2410-80 | % | 91.8 | |

6. Product size and specifications

| Appearance | Frosted on one side and prismatic crystal microstructure on the other side | |
|---|---|--|
| Luminous efficiency | Light transmission 40-65% With anti-glare function | |
| Thickness | 0. 8mm, 1. 0mm, 1. 2mm, 1. 5mm, 1. 8mm, 2. 0mm | |
| Size | Regular: 1200mm*1200mm Customized width: ≤1280mm Customized length not limited in theory | |
| Special size within the size above can also be customized | | |