

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 eye 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 $\pm 5\%$	mm	1.2
Mechanical Property			
Tensile Strength	ISO527	MPa	25.5
Tear trength	ISO527	MPa	24.7
Physical Property			
Proportion	ISO1183	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	ISO306	°C	95.1
Heat Distortion Temp	ISO75	°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: ≤ 1280 mm Customized length not limited in theory
Special size within the size above can also be customized	