

光扩散
Diffuse Sheet



其它实心板
Other Solid Sheet

漫反射效果, 让视觉得到最佳!

*Lixin Diffuse Technology,
Optimized Visual Effect!*

针对不同的透光率和雾度要求, 光扩散板能提供多种规格和参数的产品。比如, 有些应用对光扩散的要求不高, 仅需要柔和背光源轮廓, 有些应用对光扩散的要求很高, 以避免眩光直射。历新光扩散板给到设计师更多的选择性和灵活性, 更好的满足各种特定需求。

Diffusive Sheet offers many light diffusion levels to help achieve the desired lighting qualities. Some designs, for example, may want a low level of diffusion to soften the edges of emitted light. Others may need more light diffusion to reduce direct glare. Having these diffusion options allows designers the ability to achieve the lighting qualities they desire for a specific fixture.

光扩散板

Diffuse Sheet (*LDS*)



UV Protection
抗紫外线



Light & Durability
轻质耐久



Beauty Appearance
绚丽观感



Light Diffused
漫反射



Ideas for Growth

先进采光节能方案的倡导者
Advocates of Advanced Lighting & Energy-saving



Ideas for Growth

Permanent
Excellent Quality
Just Need Time to Prove

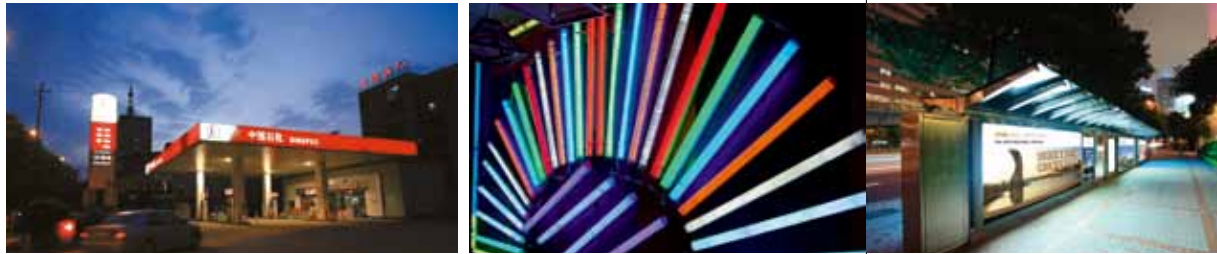
光扩散板

Diffuse Sheet

产品责任条款:

本信息和我公司的技术建议, 无论是口头的、书面的, 还是以试验的形式, 都是出于诚意而提供, 对此, 我公司并不作任何保证, 这同样适用于涉及第三方所有权的情形。我公司的技术建议并不免除贵方验证当前所提供的信息 (特别是我公司安全资料和技术信息表中的信息), 并对产品按照特定的工艺和用途进行适应性测试的义务。对产品的应用、使用和加工, 以及按照我公司的技术建议由贵方生产的产品是我公司不能控制的, 因此, 完全是贵方的责任。我公司的产品依照我公司现行有效的销售与交付的一般条款进行销售。

Cat.2013.LDS



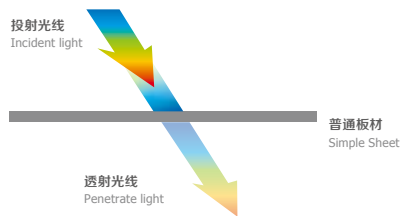
Permanent
Excellent Quality
Just Need Time to Prove

光扩散板 Diffuse Sheet

光扩散板是一款专为照明和广告标识领域设计的聚碳酸酯实心板材。通过国际最为领先的扩散原料改性技术，它可以实现高透光率和高扩散度的美妙结合。均匀的光扩散效果有助于隐匿背光源投射在板材上轮廓。与玻璃和亚克力制成的光扩散材料相比，历新PC光扩散板更为坚韧耐用。它的耐高温特性允许设计师将光源和面板设计得更紧凑。历新光扩散板优越的阻燃性能，也使其比亚克力等可燃材料更适合应用在对消防有更高要求的建筑里（比如机场、地铁站）。

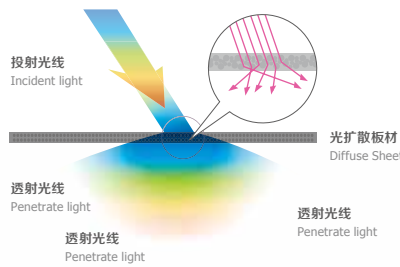
diffuse sheet is a translucent polycarbonate product specifically designed for lighting lenses and light box. It features a unique combination of high light diffusion and high light transmission through advanced diffuser technology. Its uniform diffusion characteristics help diminish visible LED 'hot spots' on the sheet. When compared to other light diffusing products such as glass and acrylic, Diffuse Sheet has superior impact strength. Its high temperature resistance allows tighter designs than are possible with acrylic. The safe fire behavior of diffuse sheet makes it ideal for use in areas where building regulations require it, such as airports and subway stations.

● 普通板材表面的光线透射 The ordinary polycarbonateh sheet surface reflection



● 光扩散板材的漫反射 Astigmatism polycarbonate sheet surface diffuse reflection

板材表面漫反射层，使光线的反射呈散射状态，雾度优良！
The diffuse reflect layer on sheet surface,make the light
with scattering reflection,get a good incrustation



产品特点

- 透光率高
- 抗冲击强度高
- 防火性能佳
- 可加工成型

- 散光效果
- 耐候性好
- 轻质、易安装

Product Features

- High light transmission
- High impact strength
- Flame retardant
- Machine-shaping
- Astigmatism effect
- Good weather resistance
- Lightweight, Easy to install

黑板
Black & White Diffuse Sheet

乳白散光板
Opal Diffuse Sheet

光扩散板典型物理特性 Technical Features

特性 Features	方法 Test Code	条件Test Condition	单位Unit	数值Data
比重 Density	(ISO 1183)		g/cm³	1.2
吸水性 Water Absorption	(ISO 62)	24 h @ 23 °C	mg/kg	<8
拉伸强度 Tensile Strength	(ISO 527)		MPa	60
断裂延伸率 Elongation at Break	(ISO 527)		%	90
弹性拉伸模量 Tensile Elastic Modulus	(ISO 527)		MPa	2,200
磨损试验 Abrasion Test	(ISO 179)	旋转100次 CS-10F, 500 g	% Haze	<1.5
维卡软化温度 Vicat Softening Temperature	(ISO 306)	VST/B 50	°C	150
热变形温度 Distortion Temperature	(ISO 75)	负荷: 1.8 MP	°C	135
长久使用温度 Continuous Working Temperature	(DIN 53446)		°C	-50 to +100
短期服务温度范围 Temperature Range			°C	-50 to +120
线性热膨胀系数 Linear thermal Expansion	(DIN 53752)		cm/cm °C	6.5 x 10 ⁻⁵
导热系数 Thermal Conductivity	(DIN 52612)	0 - 50 °C	W/m K	0.21
比热 Specific Heat			J/g K	1.3
透光率 Light Transmittance	(DIN 5036)		%	可调 Adjustable
倒角 Chamfer Angle	(DIN 52305)	3 mm	Bg	<5
折射能力 Refractive Power	(DIN 52305)		dpt	<0.1
体积电阻率 Volume Resistivity	(DIN VDE0303)		Ωcm	10 ¹⁵
绝缘强度 Insulation Strength	(DIN EN 60243)		kv/mm	>30

● 多彩光扩散板

Brilliant Lixin diffuse sheet

光扩散板（21000平米）被使用在举世瞩目的2010年上海世博会石油馆项目。蓝色的板材里面安装了三基色LED光源。白天，它是象征石油行业美好前景的海蓝色。晚上，整个石油馆像一个七彩魔盒，矗立在黄浦江畔，得到组委会和观众的一致认可。它的成功标志了正兴的光扩散技术已达世界领先水平。

Gensin's light diffuse technology has provided a wonderful solution for the Oil Pavilion of 2010 Shanghai Expo. 21000 Lixin diffuse sheets were installed with all-color LED light sources. It showed blue color in the daytime. During light show time of each night, the oil pavilion looks like a huge colorful magic box, standing out of other pavilions along the Huangpu River. The success indicates that Gensin's light diffuse technology has reached world-class level.



菱镜纹扩散板 Prismatic Diffuse Sheet

菱镜纹扩散板是 Gensin 的专利产品，这种特殊的光学菱镜设计，使得板材在即使没有采用散光技术的情况下亦可使光线产生散射，透光率几乎接近普通透明平板，节能效果明显。

prismatic diffuse sheet is Gensin patented product. It enables light scattering even without the use of astigmatic agents. Light transmission of the prismatic sheet is almost the same as that of flat clear sheet.

