



● 可选附加功能 Options



Solar-Control
红外光控

红外光控系列板材采用特殊的原料改性技术（金属反射、珠光反射、红外吸收），使得板材具有远红外屏蔽功能，它能够有效阻挡或吸收太阳光谱中远红外热能，将温室热量用于建筑的温控及照明成本，营造更为舒适的室内环境。

针对不同的透光率和密度要求，历新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，只需要柔和光源轮廓，有些应用对光扩散的要求很高，以避免眩光直射。历新光扩散板能给您提供更多的选择性和灵活性，更好的满足各种特定需求。



Light Diffuse
光扩散

Lixin 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 allow designers the ability to achieve the lighting qualities they desire for a specific fixture.



Anti-fog
防雾滴

新一代防雾滴板材采用原进口的羟基包覆纳米有机硅防雾滴材料，这种亲水防雾滴材料能增加水汽在板表面的张力，它的典型水滴接触角可低至8度，雾气积聚形成的水滴会快速的顺着板内壁斜坡向下分流，适用于不允许滴露现象的采光顶棚，特别是游泳池、农业温室及植物生态园。

New generation anti-fog sheet applies hydrophilic coating technology, its inner side can increase the surface tension of water on sheet surface and prevent the condensation of water. It has been widely used in greenhouse and plant ecological garden to effectively protect the crops and flowers from the damage of condensation water.



Embossed
表面颗粒

立体凹凸效果，增强遮断性的同时，可反射强光对板材的直接照射，分散反射光线，使光线柔和，减少了光污染。

With increased 3-D Embossed effects as well as its barrier property, Embossed polycarbonate sheets can reflect the irradiation of strong light. As a result, it can distribute reflected light rays, thereby soften the light and reduce the light pollution.

以上附加功能有的可单独，有的可组合实现。附加功能的不同也可能导致产品成本的变化，欲知更多技术或商务信息，敬请致电正兴客服热线400-666-1197，我方人员将竭诚为您服务。

You can have one or more above options to fulfill your requirement. Different options may come with different cost. For more information, please feel free to contact us 400-666-1197.

波浪板标准参数 Production Standards & Technical Features

产品结构 Structure	板材厚度 Thickness
0.8~2.0mm	

板材常规颜色 Color



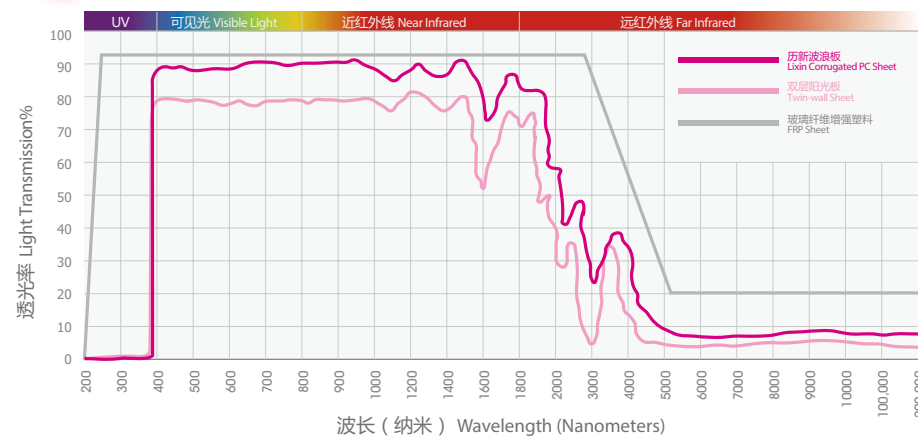
高透、抗紫外线

High Transparent & UV Resistant

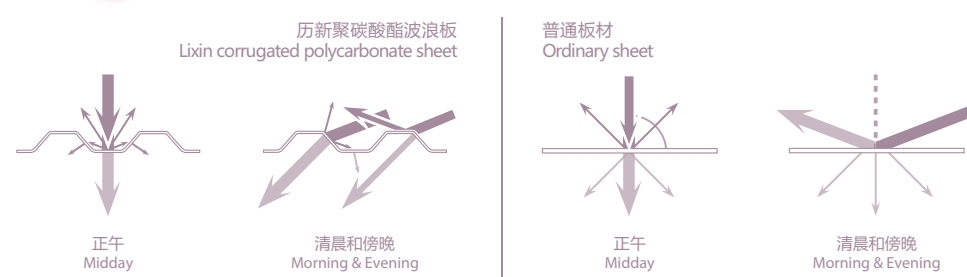
历新-聚碳酸酯波浪板采用全新进口原料生产，出色的透光率可高达90%以上。同时板材表面均匀共挤有50μmUV层，可有效阻挡波长380纳米以下的UVA和UVB，防止板材黄变及室内物体受到紫外线的伤害。

Lixin corrugated PC sheet produced by new imported material, the light transmission can reach above 90%. With uniformly 50μm coextruded uv layer on the surface, it can prevent the sheet yellowing and indoor objects from harmful ultraviolet rays.

● 日光透射对比 Comparison of Solar Transmissions



● 光线透射率对比 Comparison of Light Transmissions



与普通平板相比，历新聚碳酸酯波浪板在清晨和傍晚时分能获得更高的光线透射率。

Compared with normal flat sheet, Lixin corrugated sheet can reach higher light transmittance in the morning and evening.

Solar-Control
红外光控

UV Protection
抗紫外线

Energy-saving
节能环保

Impact Resistant
抗冲击

Easy to Install
安装简便

Permanent
Excellent Quality
Just Need Time to Prove

聚碳酸酯波浪板
Corrugated Polycarbonate Sheet

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

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Cat.2015. LGC2RS



聚碳酸酯波浪板 Corrugated Polycarbonate Sheet

-聚碳酸酯波浪板是正兴最新开发的新型节能产品，具有轻质高强的特性以及最佳的透光率。波浪板特有的柔韧性使其安装变得更加容易，同时有效避免了因热胀冷缩导致的板材变形问题。历新聚碳酸酯波浪板有多种波形和颜色可选，也可根据需要加工定制。

polycarbonate corrugated sheet is a new design engery-saving product, with light weight and high light transmission. It is easy to install with the special flexibility, effectively avoid deformation caused by thermal expansion and contraction. With different shapes of wave, Lixin polycarbonate corrugated sheet can also custom made.

产品特点

- 轻质
- 阻燃
- 抗冲击
- 抗腐蚀
- 高透光率
- 抗紫外线
- 安装方便
- 稳定性好

Advantages

- Light Weight
- Flame Retardancy
- Impact Strength
- Chemical Stability
- High Clarity
- UV Protection
- Easy to Install
- Thermal Stability



典型应用

厂房、仓库 / 天窗、侧窗 / 雨棚、车库 / 温室、花房 / 泳池、走廊 / 防护罩、DIY

Applications

Factory, Warehouse/ Rooflight, Sidelight/ Canopy, Parking shelter/ Greenhouse, Hanabusa/ Swimming pool/ Walkway/ Shield, Do It Yourself



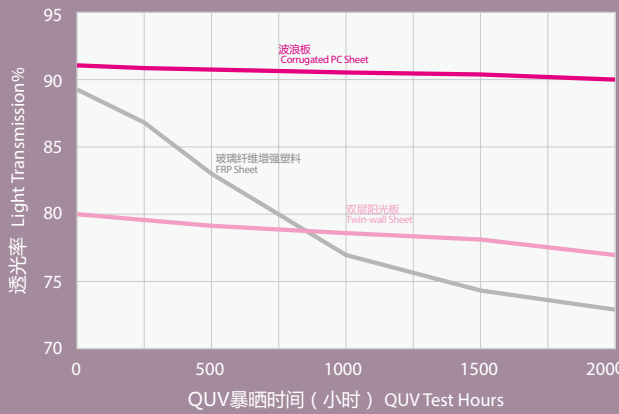
2000小时加速老化实验

聚碳酸酯波浪板能经受长时间的严苛气候考验。经过2000小时QUV加速老化实验，其透明度及黄变指数的变化是肉眼无法察觉的。

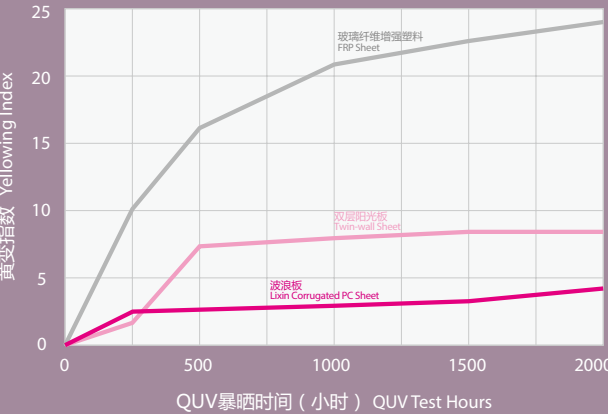
2000 Hours QUV Test

As the graph shows, there was little change with light transmission and yellowing of UV-coated corrugated PC sheets after 2000 hours QUV test.

透明度损失对比 Clarity Loss Comparison



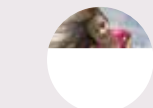
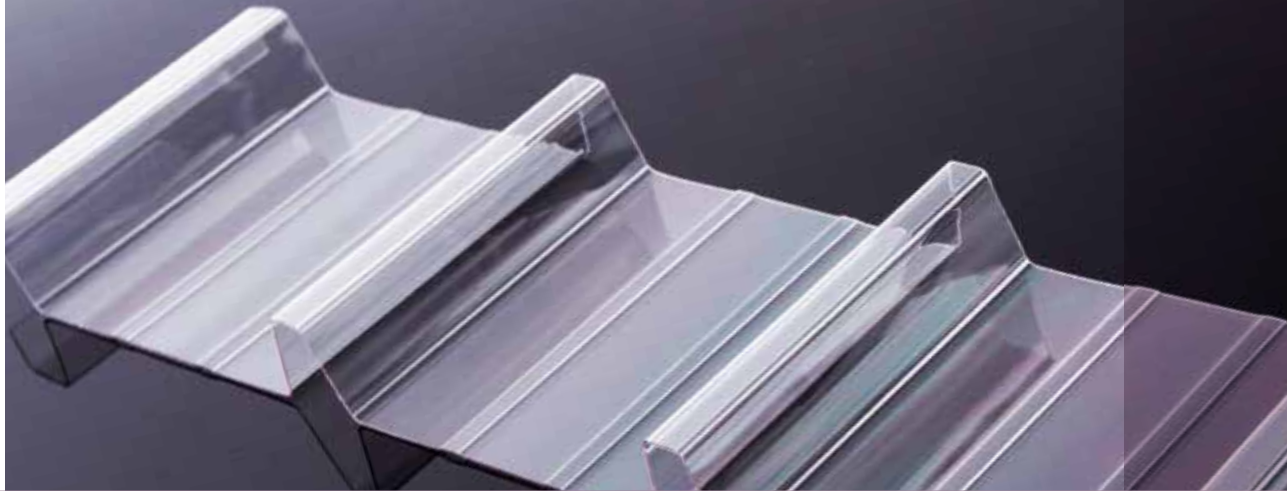
板材黄变对比 Yellowing Comparison



典型物理特性 Typical Physical Properties

特性 Property	方法 Method	条件 Conditions	单位 Unit	数值 Data
比重 Density	D-792		g/cm3	1.2
热变形温度 Heat deflection temperature	D-648	Load: 1.82 MPa	°C	135
短期服务温度 Short term service Temperature			°C	-50 ~ +120
长期服务温度 Long term service Temperature			°C	-50 ~ +100
线性膨胀系数 linear thermal expansion	D-696		cm/cm°C	6.5 x 10 ⁻⁵
导热系数 Thermal conductivity	C-177		W/m K	0.21
屈服拉伸强度 Tensile strength at yield	D-638	10 mm/min	MPa	62
断裂拉伸强度 Tensile strength at break	D-638	1 mm/min	MPa	65
屈服延伸率 Elongation at yield	D-638	10 mm/min	%	6
断裂延伸率 Elongation at break	D-638	10 mm/min	%	>70
弹性拉伸模量 Tensile modulus of elasticity	D-638	1 mm/min	MPa	2300
弯曲强度 Flexural strength mechanical	D-790	1 mm/min	MPa	93
弯曲模量 Flexural modulus	D-790	1.3 mm/min	MPa	1890
冲击落重 Impact falling weight	(ISO 6603/1 E50)	0.8 mm sheet	J	50
洛氏硬度 Rockwell hardness	D-785		R Scale	118
透光率 Light Transmission	D-1003	透明板 Clear sheet	%	90%
雾度 Haze	D-1003	透明板 Clear sheet	%	<0.5
黄变指数 Yellowness index	D-1003	透明板 Clear sheet	YI	<1

* ASTM 除非另有说明。ASTM except where noted otherwise.



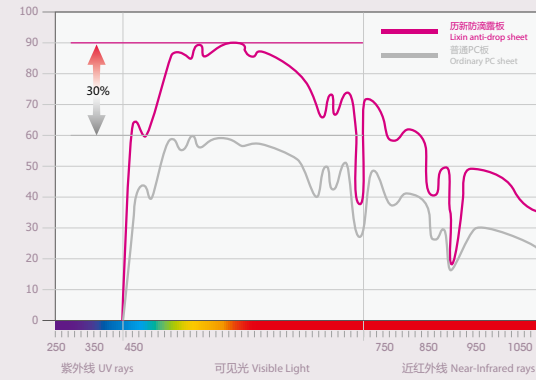
有效减少冷凝水
防雾滴
effectively reduce condensation
anti-drop

- * 适用于所有历新中空结构板材
Applicable to Lixin sheets of all structures

波浪板可在表面附加防雾滴处理层，用于消除因湿度及室内外温差所造成的顶棚内壁雾滴现象。雾气积聚形成的水滴将会有利于植物生长的近红外光和可见光反射回去，使植物光合作用下降从而影响生长。特别是在农业温室、花房，凝结的雾滴还会滴落在农作物上，对幼苗、花卉等作物造成伤害。

corrugated PC sheet can cover anti-drop coating, it can prevent the condensation water caused by temperature difference. Water droplets on the surface of the glazing reduce light transmission, which will weaken the plants photosynthesis, and affects their growth. Especially to agriculture greenhouse, the drip will damage the crops.

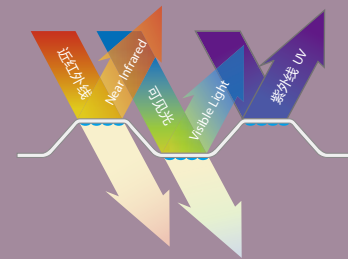
历新 - 防雾滴板材与普通版在易结露时段的透光率对比图



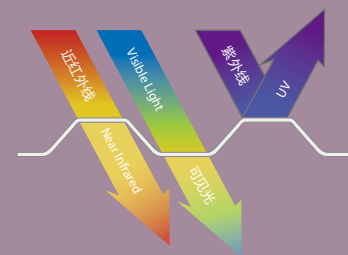
如图所示：采用-新生代防雾滴技术涂覆的板材比不具有防雾滴功能的板材在相同太阳光照射下它的透光率提高30%，增加作物的光合作用，良好的光照能提高农作物产量。

As see from the graph, the light transmission difference between antidrop sheet and ordinary sheet could reach 30% during peak time of condensation. It will accelerate plants photosynthesis and provide good light to increase crop production.

普通波浪板
Normal Corrugated Sheet



防雾滴波浪板
Anti-drop Corrugated Sheet



普通板材
冷露水易凝结成水珠滴落
Ordinary sheet
The condensation water is easy to form up and drop down

历新防雾滴板材
冷凝水凝结前即沿板材内层滑落，避免滴漏
Lixin anti-drop sheet
Instead of dropping, the condensation water slides down along the sheet

可燃性 Flammability

标准 Standards	分类 Classification
EN13501	B, s1, d0
NFP 92501, 4, 5	M-1
DIN 4102	B-1
UL 723	4.7, 47.0
Los Angeles Building Code	CC2 (Section 2603)
UNI 9177, 9176	Class 2



优异的物理特性
建筑采光的理想选择!
Excellent Physical Properties
Best Choice for Daylighting!

各类采光材料对比 Comparison of Daylighting Materials

特性 Property	聚碳酸酯双层板 Twin-wall PC Sheet	亚克力双层板 Twin-wall PMMA Sheet	纤维增强板 FRP Sheet	聚氯乙烯板 PVC Sheet	4mm玻璃 4mm Glass	历新PC波浪板 Corrugated PC Sheet
持续使用温度 Working Temperature	120°C	90°C	100°C	60°C	240°C	120°C
抗冲击强度 Impact strength	★★★★	★★	★★★	★★★★	★	★★★★★
可见光透射率 Visible Light Transmittance	80%	82%	86%	82%	90%	90%
透光率耐久性 Durability of Transmittance	★★★	★★★★★	★★★	★★★	★★★★★	★★★★★
紫外线透射率 UV Transmittance	0	40	20	0	20	0
阻燃性 Flame Retardancy	★★★★	★★	★★	★★★	★★★★★	★★★★