

## **Uplus Energy Saving Glass**

Energy-saving building materials Application of Nano Technology Application of Consumer Goods



### 4 Reasons To Choose Vampire Shield Insulating Glass



01	02	03	04
>99%	High	Low	Non-metal
UV blocking	Transparency	Reflectance	Substance coating

Worry about the conventional Low-e glass is oxidized year by year, insulation capability is invalid?

Need to block the heat outdoors and allow visible light to pass through? Worry about insulation glass has color difference from other glass? Looking for 100% UV rays blocking to avoid furniture color fading or skin aging? Worry about neighbor's complaints about your glass glare?

Worry about the metal substance coating on insulation glass affecting phone signal reception?

Looking for a type of glass with better sound insulation than conventional laminated glass?





### Uplus Gives You Total Solution Of Energy-Saving Applications To Create A More Comfortable And Friendly Living Environment

Renewable energy development is far less than the rate of energy consumption. The construction industry attaches great importance to "energy-saving houses", so that the demand for insulated building materials will become higher and higher. Uplus takes care of health and the future with the utmost efforts to block solar thermal energy and UV rays.





### High transparency serieslaminated glass <P-7090>

Compare with Low-E glass, it is more efficient to resist infrared radiant heat! Low reflection and high transparency without affecting the original color design. The non-metal substance does not cause any oxidation.



7	0	%
	VLT	



				Laminate	d glass struct	ure(mm)	
Item	Thickness ±5%(mm)	Weight ±5%(kg/m2)	Tempered Glass	UVIR Film	Tempered Glass	Air	Tempered Glass
P-7090-505	10.8	25.9	5	0.86	5	N / A	N / A
P-7090-606	12.8	30.9	6	0.86	6	N / A	N / A
P-7090-AG505	27.8	39.5	5	0.86	5	12	5

\*\*The product aesthetics test follows the national standard CNS-2217R2044 for tempered glass aesthetics inspection. Quotation needed if higher inspection standard required for Uplus products.

#### High transparency

leat blocking

hatter resistan

Sound Isolation



### High thermal insulation series laminated glass <P-60100>

High thermal insulation laminated glass is created by the gradual increase energy-saving housing demand. It greatly reduces A/C electricity usage and save electricity costs to match the requirement in the market.

Laminated glass structure(mm

Item	Thickness ±5%(mm)	Weight ±5%(kg/m2)	Tempered Glass	UVIR Film	Tempered Glass	Air	Tempered Glass
P-60100-505	10.8	25.9	5	0.86	5	N / A	N / A

\*\*The product aesthetics test follows the national standard CNS-2217R2044 for tempered glass aesthetics inspection. Quotation needed if higher inspection standard required for Uplus products.

### In Comparison With LOW-E Glass Capabilities

	11						1
	Optical Property						
	UV Transmittance (%)	VLT (%)	VLR (%)	Solar radiation transmittance (%)	Solar radiation reflectance (%)	SC	
Uplus High transparency series	<1	71.53	6.99	33.37	5.35	0.625	
Uplus High thermal insulation series	<1	45.00	8.58	18.82	9.23	0.40	
5mm+5mm clear glass	<1	78.00	8.00	77.00	7.00	0.91	
5mm+5mm Low-e glass	<1	60.96	15.18	44.86	13.16	0.71	

### Applications



Tea Packing Material Store — Nantou





Yunlin Christian Hospital Yunlin

### Uniquely Created Nano-tech Insulation Materials And Technique Produces Highly Efficient Glass For Green Building Materials

### Green Building Materials <Double Glazed Unit>

Uplus has patents in nano-tech insulation materials and high-tech UVIR film, combining these with laminated technique creates high quality glass to meet the "Green Building Material" standard.





	UV transmittance%	0.1
	Visible Light transmittance%	51.6
	Visible Light Reflectance%	8.8
Sola	r Heat Gain Coefficients%(SHGC)	0.27
	Shading Coefficients(SC)	0.31
	Thermal Transmittance(U)	1.58

# Uplus Life plus.



### Zirco Applied Materials Co., Ltd.

1F., No. 217, Songyong Rd., Zhongli Dist., Taoyuan City 320010, Taiwan
♦ +886 3 4905680
■ +886 3 4905810
∞ service@zirco-am.com.tw
⊕ www.globaluplus.com

