

PVC CORRUGATED SHEET

PVC 塑膠浪板



It is the most excellent and modern construction material and the necessity of manufacturing plants and residential buildings. It not only can block, select lighting, apply indirect lighting, adjust lighting and also use as room partition, it also can be used in interior and exterior decoration, garden house, pavilion.

The material is resilient and durable, non-flammable, non-corrosive, and can replace corrugated sheet of other materials. It is the most ideal architectural material.



FEATURES:

1. Bright and colorful-Large variety of colors with all kinds of translucent effect which produce suitable diffused light and add grace and live to your room.
2. Resilient and durable-It is light, resilient and can be cut freely. It is also weather resistant and very durable.
3. Excellent insulation-Made of PVC, non-flammable and non conductance. It has the best insulation effect.
4. Corrosive and erosive proof-It has absolute corrosive proof and will resist acid/alkali chemicals.



THE PHYSICAL PROPERTIES/一般物性

Specific gravity	比重	1.3-1.4
Softening Point	軟化溫度	65°C以上[min.]
Inflammability	耐燃性	Self Extinguishing
Light Stability	耐光性	Excellent
Impact Resistance Test	衝擊試驗	球重:1kg, 高度:120cm 不破裂 Un-crack

R111 W012 O201 B811 B821 G711 G311



B800 Y411 R101 G700 Y400 C006

TYPES AND SPECIFICATIONS/種類與規格

Types 種類	Specs 規格	(1) 厚度 (m/m) Thickness	長度 (ft) Length	寬度 (inch) Width	(2) 浪高 (m/m) Depth	(3) 浪距 (m/m) Pitch	參考浪數 NO. of Corrugations
Small Wave 小圓浪		0.6	6-19	26"	9	32	21
		0.8±0.1		28"			22.5
		1.0		30"			24
Big Wave 大圓浪		0.8	6-19	26"	15	63	10
		1.0		28"			11
		1.3±0.1		30"			12
		1.5		30"			12
Grand Wave 特大圓浪		0.8	6-19	26"	18	76	8.5
		1.0		28"			9.5
		1.3±0.1		30"			10
		1.5		31"			10.5
養殖水產九孔用板		0.6±0.1	2	14.5" (1.25尺)	9	32	12
Flatsheet 平板		0.6	100	3尺			
		0.8±0.1	80				
		1.0	60				

WHITE MUD WEATHER 白泥耐候強化塑膠浪板 RESISTANT REINFORCED PLASTIC CORRUGATED SHEET



The general roof and wall materials such as steel, aluminum and asbestos all have serious deficiencies. The deficiencies are unsatisfactory weather resistance, poor durability, corrosion, rust and can't stand rain and wind. They cause losses and wastes to the people.

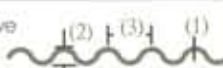


Due to these reasons, we have entrusted the Industrial Technical Research Institution jointly with Industrial Research Institution to perform plant research in June 1974. The red mud plastic was successfully developed and had received international patent in several countries. It is also produced for domestic and export. The product is excellent and have good evaluation internationally. We had felt that the red mud plastic was still unsatisfactory and proceeded with improvement research. We successfully developed the more durable, more resilient white mud weather resistant reinforced plastic corrugated sheet which will not corrode, age, deform, and has bright colors. Reinforced plastic/steel doors, windows of similar materials have been used in Europe for some ten years and have not being change since.



APPLICATIONS:

Modern manufacturing plants, chemical plants and treatment plants, sports stadium. Shops, warehouse, tourism facilities, marine products / agricultural industry, boats and ships, general house peripheral facilities and various shades.

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Small Wave 小圓浪		1.0 1.5 2.0	6~19	30	15	63	12
Grand Wave 特大圓浪		1.0 1.5 2.0	6~19	30	18	76	10
Channel 槽型板		1.3 1.5 2.0 2.5	6~19	810 m/m	27	185	5
Channel 槽型板		1.3 1.5 2.0 2.5	6~19	840 m/m	27	265	4

FEATURES:

- **Weather resistance, aging proof**-WMP weather resistant plastic is produced from special materials. The raw material contains ultra-violet resistant absorbing agent and eliminates the PVC being decomposed by ultraviolet light. For general plastic products, one of the PVC ingredient can easily turn into hydroxide by the sun light after high temperature fabrication or long term exposed to the sun. But the white mud plastic can absorb this newly reacted hydroxide and stabilize to maintain the aging resistant function.
- **Excellent heat insulation**-The coefficient of heat conductivity of WMP corrugated sheet is really low. The bright colors can also reflect sun light and will not absorb the heat. It will reduce interior temperature by 3°C~5°C.
- **Excellent chemical resistance**-WMP weather resistance reinforced plastic corrugated sheet can resist most of organic solvents, salts, acids and alkalis. It is suitable to be used at areas with strong erosion.
- **Safety**-Non flammable, non combustion, the electric insulation is as high as 10¹⁵Ω-cm. It is an excellent electric insulator and will not conduct current when thunder strikes. There is no dust, will not cause cancer and promises human's health.
- **Resilient and strong**-Impact resistant, pressure resistant, shake resistant and bending resistant. WMP weather resistance reinforced plastic corrugated sheet has proceeded with impact test. A 1kg eggplant-shaped heavy weight was dropped from 300cm height into the corrugated sheet and the sheet was not cracked (CNS 3114 test standard is to drop a 1kg eggplant-shaped heavy weight from 120cm height. The test is approved if the sheet was not cracked).
- **Fine out-looks**-The material of WMP weather resistance corrugated sheet is smooth and fine, with bright colors and will easily coordinate with building out-looks.
- **Light permeability**-WMP corrugated sheet has 1/100 light permeability. It is bright without heat. The inner layer is bright and smooth with good reflectivity which will increase interior brightness, hence achieve energy saving.
- **Light material**-The weight ratio is 1.4~1.45 which is lighter than asbestos and iron sheets. A sheet of equal length and width WMP corrugated sheet only weighs 1/8 of asbestos. Therefore, reduces the frame load.

THE PHYSICAL PROPERTIES/一般物性

Specific gravity	比重	1.4~1.42	g/cm ³
Tensile strength	抗拉強度	600~800	kg/cm ²
Module of elasticity	彈性係數	2.8~3.2	kg/cm ² x 10
Flexural strength	彎曲強度	800~1000	kg/cm ²
Coefficient of thermal conductivity	導熱係數	0.08~0.10	kcal/m.h.°c
Electricity Resistance	耐電壓	10 ¹⁵	Ω/cm
Flammability	耐燃性	self Extinguishing	
HDT 264 psi	耐熱性	70~80°C	



Drug Resistance/耐藥品性

藥品 Drug	Acid 酸				Alkali 鹼		Organic Solvent 有機溶劑						Acidulating agent 酸化劑
	硫酸 Sulfuric Acid	鹽酸 Hydrochloric Acid	硝酸 Nitric Acid	醋酸 Acetic Acid	蘇打 SODA(Sodium Carbonate)	福馬林 Formalin	四氯化炭素 Carbon tetrachloride	丙酮 Acetone	醋酸乙酯 Ethyl Acetate	乙烷 乙烷	汽油 Gasoline	次亞氯酸鈉 Sodium Hypochlorite	
	60%	35%	70%	90%	5%	15%	40%	100%	100%	100%	100%	100%	
Result	○	○	○	○	△	×	○	○	×	×	○	○	

○ Excellent 優秀 ○ Good 良好 △ Poor 不良 × Unusable 不可使用

REINFORCED PLASTIC TRANSPARENT SHEET

塑鋼採光浪板

General roofing sheets such as conventional FRP do not have satisfactory weather resistance and strength. PC sheets are more expensive. Upon years research and development, we have developed the high strength, excellent weather resistance plastic sheet to solve deficiencies of the products described above.

This high strength plastic sheet has excellent impact proof and load. It is suitable for roofing, interior/exterior walls and interior decoration. The material will not rust, conduct electric current and is suitable for buildings of each area. The weight is only 1/3 of asbestos and 1/2 of steel material which will reduce structural loading. Steel can be saved, reduces depreciation and ensure application benefits.



FEATURES:

- Soft color with excellent light permeability.
- Excellent impact resistance.
- Excellent bending property-small bending radius during construction.
- Conforming to CNS highest non combustion standard.
- Excellent durability and weather resistance.
- No existence of rust, corrosion and conductance.
- Light weight, easy installation.
- Even thickness and uniform intensity spreading.
- Harming construction materials with no public.






T04

C06

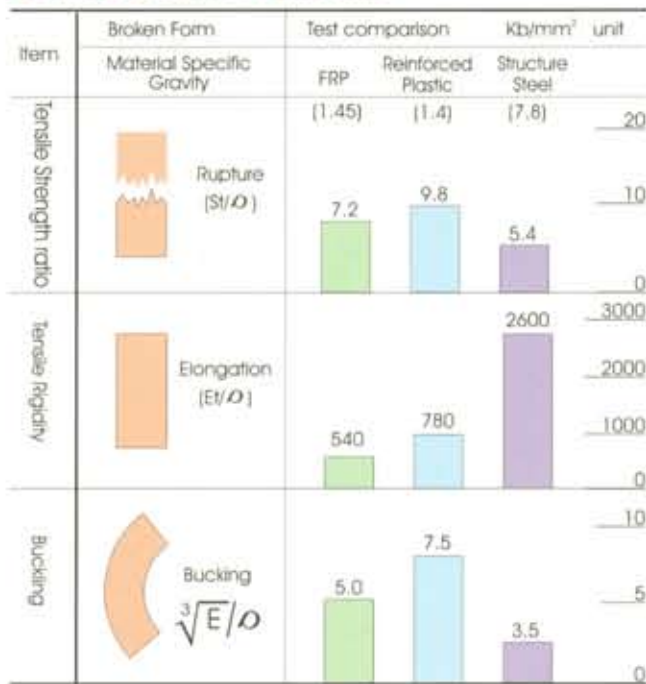
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C08

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Comparison of strength, rigidity and bucking for various materials



Comparison of Properties of Various Corrugated Plate

Item	Material	Reinforced Plastic	FRP	STEEL	ASBESTOS
Mechanical features	Specific Gravity	1.40	1.45	7.8	2.0
	Tensile Strength	12-14	8-10	30-50	0.5-1
	Yang's Coefficient	900-1100	600-800	21000	1500-1700
	Compression Strength	13-18	7.0-9.0	19.7	1.4
	Bending strength	15-20	7-10	19.7	1-2
	Impact Strength	90-100	5	1500	3-4
Thermal features	Heat Conductivity	0.08	0.12	38-48	0.46-0.54
	Coefficient of Linear thermal Expansion	2.8	3-4	1.3	0.99-1.15
	Temperature Available	-40°C-65°C	-20°C-65°C		