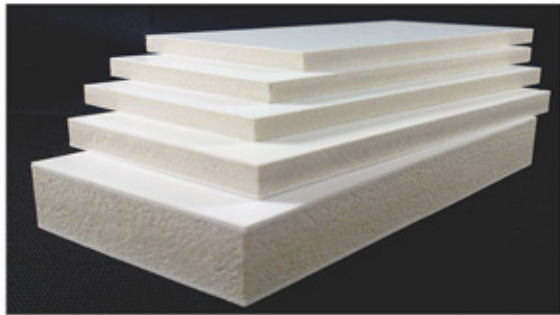


# PROWANG® PROLIGHT PVC RIGID FOAM SHEET

After long year's development, Prowang Plastic Co., Ltd creates PVC rigid foam sheets (PROLIGHT) by its state-of-the-art Multi-Extrusion & Compression technology. PROLIGHT are lightweight, much tough without chap, anti-insects, moisture proof, self-fire extinguishing and chemical corrosion durability. PROLIGHT could be recycled environmentally and are assemble & cut friendly.

## Standard Size:

Width(mm)	Length(mm)
1220mm	2440mm
Thickness: 3mm - 18mm	
Density Range: 0.55 - 0.65g/cm <sup>3</sup>	
Surface Color: Designated by Order Quantity	



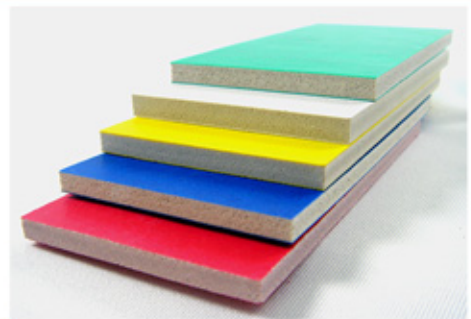
## Applications:

- ✘ Building partition or decoration for dwellings, offices, public places or boats etc.
- ✘ System furniture, kitchen cabinets, bathroom cabinets, living room cabinets and shoes cabinets.
- ✘ Cubicle boards, showcase boards, cabinets boards and partition boards.
- ✘ Floor boards and door planks for bathrooms, washrooms, rest rooms and interior design.
- ✘ Sign boards of advertising, exhibitions, computer printing or window shopping decoration.
- ✘ Waterproof, moisture proof and weather durable facilities boards.
- ✘ Furniture of all kinds of desks, closets or bed sides cupboards etc.
- ✘ Floor boards of cars, buses, trains or yachts.
- ✘ Modern interior-exterior architecture design.
- ✘ Interior, exterior boards and DIY furniture.
- ✘ Fire prevention, flame resistant facilities boards.



## Characteristics:

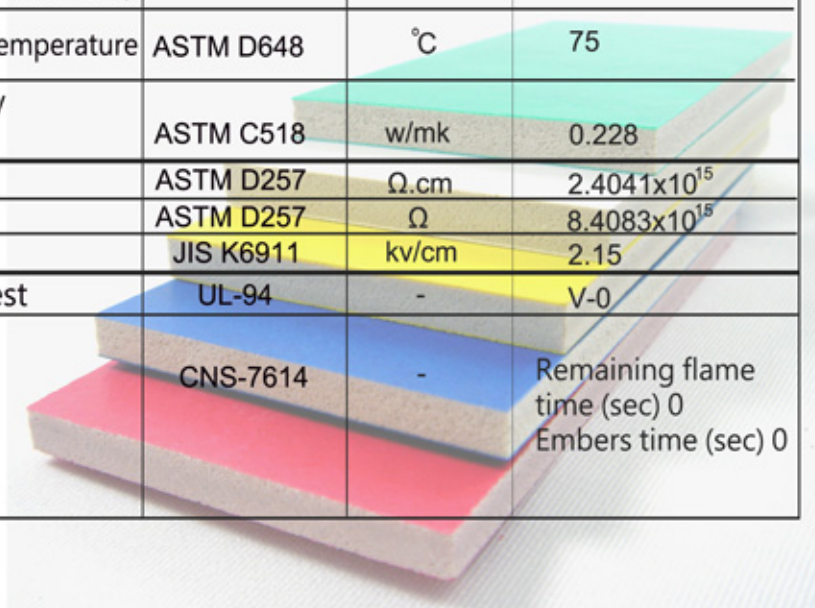
1. Timber-like process functions and easy to nail, drill, shave or glue. Well-adhesive advantage for painting.
2. Without wood natural defective problem, such as chap, or rot problem and no need for maintenance constantly.
3. Waterproof, moisture proof, mildew proof, corrosion resistant and moisture durable. Instead of the wood problem which is easily rotted, expanded and deformed because of moisture or vapors.
4. Self-fire extinguishing and non combustion-supporting features.
5. Environmental-friendly green healthy materials, negative content of formaldehyde, TVOC and asbestos.
6. Plastics features of well storage for long periods of time, hardly deformed.
7. Smooth rigid surface, scrape durability and anti-indentation. High Insulation.
8. Light weight and Toughness features. Good anti-chemical properties, acid proof and bear the alkali. Anti-insects and anti-termites.
9. Good dimension stability and able to reprocess again and again.
10. Weather resistant and able to set outdoor over a period of time.
11. Suitable for printing and fitting process.



# PROWANG® PROLIGHT PVC RIGID FOAM SHEET

## PROPERTIES

Kind	Item	Method	Unit	Value
Mechanical	Thickness	-	mm	10-15
	Density	ASTM D792	g/cm <sup>3</sup>	0.55 ± 0.03
	Tensile Strength	ASTM D638	kg/cm <sup>2</sup>	129
			Mpa	12.7
			psi	1833
	Flexural Strength	ASTM D790	kg/cm <sup>2</sup>	228
			Mpa	22.4
			psi	3240
	Compressive Strength	ASTM D695	kg/cm <sup>2</sup>	130
			Mpa	12.5
			psi	1815
	Compressive Stress For A Compressive Strain Of 30%	ASTM D695	kg/cm <sup>2</sup>	230
Mpa			22.6	
psi			3268	
Modulus Of Elasticity	ASTM D638	kg/cm <sup>2</sup>	13710	
		Mpa	1345	
		psi	194827	
Hardness	ASTM D676	SHORE D	75	
Impact Strength (+20°C)	ASTM D256	kg-cm/cm <sup>2</sup>	1.5	
		Mpa	0.147	
		psi	21.33	
Thermal	Vicat Softening Temperature	ASTM D1525	°C	73
	Coefficient Of Linear Thermal Expansion (From -30°C to +50°C)	ASTM D696	mm/m°C	6.583x10 <sup>-5</sup>
	Heating Deflection Temperature	ASTM D648	°C	75
	Thermal Conductivity (From 0°C to +60°C)	ASTM C518	w/mk	0.228
Electrical	Volume Resistivity	ASTM D257	Ω.cm	2.4041x10 <sup>15</sup>
	Surface Resistance	ASTM D257	Ω	8.4083x10 <sup>15</sup>
	Dielectric Strength	JIS K6911	kv/cm	2.15
Fire Behavior	Vertical Burning Test	UL-94	-	V-0
	Antiflaming Test	CNS-7614	-	Remaining flame time (sec) 0 Embers time (sec) 0



# PROWANG® PVC硬殼發泡板/ PROLIGHT

## 耐化學藥品表-LIST OF CHEMICAL RESISTANT

藥品名稱 Name of Chemical		溫度 °C Temperature °C		
		20 °C	40 °C	60 °C
濃鹽酸	Concentrated Hydrochloric Acid	△	X	X
濃硫酸	Concentrated Sulfuric Acid	△	X	X
硫酸	Sulfuric Acid 30%	◎	◎	△
濃硝酸	Concentrated Nitric Acid	△	X	X
硝酸	Nitric Acid 40%	◎	◎	△
蟻酸	Formic Acid 100%	△	X	X
乳酸	Lactic Acid	◎	△	X
苛性鈉	Caustic Soda 40%	◎	◎	◎
氨水	Ammonia Water	◎	◎	△
二硫化鈉	Sodium Disulfide	△	X	X
丙醇	Acetone	X	X	X
乙醇	Ethyl Alcohol	◎	◎	△
丁醇	Butyl Alcohol	◎	◎	△
苯	Toluene	X	X	X
福馬林	Formalin	◎	◎	△
二硫化碳	Carbon Disulfide	X	X	X
四氯化碳	Carbon Tetrachloride	△	X	X
醋酸	Acetic Acid 90%	△	X	X
香蕉水	Butyl Acetate	X	X	X
汽油	Gasoline	◎	◎	△
甘油	Glycerine	◎	◎	◎
噴漆溶劑	Solution of Spraying Paints	X	X	X
氯氣(乾性)	Chlorine (Gas, dried) 100%	X	X	X
漂白水	Bleaching Solution	◎	◎	X
海水鹽水	Sea water, Salt water	◎	◎	◎
澱粉(醣)溶液	Starch (carbohydrate) Solution	◎	◎	◎
釀造用水	Brewing Water	◎	◎	◎

◎表安全適用(不變色、不變形) △表尚可使用(稍變色但不變形) X表不可使用(有變色及變形)