

RESIN PANEL

Specifications:

Standard Size:1220*2440mm(48''*96'')

Thickness:4mm(1/6''),6mm(1/4''),8mm(1/3''),10mm(3/8''),12mm(1/2'')

Available in custom size and thickness

Sandwich Materials:Fabric,leaf,flower,brich,twig,bamboo,metal,shell

Surface Finish:Glossy,Matte,Sandstone,Frost

Application:

Lamp/Light Box,Showcase Box,Ceiling Designs

Feature Walls,Wall Cladding,Partition,Sliding Door,Divider

Table Top,Bar Top,Countertop,Furniture

Property

Porperty	Test Method	Units	Value
Tested panel thickness		mm	3~10
Physical Property			
Density	ASTM D1505	g/cm3	1.27
Hardness	ASTM D785	R-scale	110
Water Ratio (24hr immersion)	ASTM D570	%	0.20
Mechanical Behavior			
Tensile Strength @Yield 50mm/min (2inch/min)	ASTM D638	Mpa(kgf/cm ²)	53(540)
Tensile Strength @Break 50mm/min (2inch/min)	ASTM D638	Mpa(kgf/cm ²)	26(266)
Elongation @Yield 50mm/min(2inch/min)	ASTM D638	%	6.0
Elongation@ Break 50mm/min (2inch/min)	ASTM D638	%	70
Flexural Strength 1.27mm/min(0.05inch/min)	ASTM D790	Mpa(kgf/cm ²)	80(820)
Flexural Modulus 1.27mm/min(0.05inch/min)	ASTM D790	Mpa(kgf/cm ²)	2150(22000)
Izod Impact Strength Notched@23°C(73°F)	ASTM D256	J/M(kgf.cm/cm)	90(9.2)

Impact Resistance (Puncture) Energy 220 m/min	ASTM D3763	J Ft.1bf	33 24
Optical Property			
Haze	ASTM D1003	%	< 1.0
Transmittance	ASTM D1003	%	89
refractivity	ASTM D542	-	1.57
Thermal Property			
Heat Distortion temperature @0.455Mpa(66psi) @1.82Mpa(264psi)	ASTM D848	°C	74 70
Vicat softening Temperature	ASTM D1525 @1kg load	°C	83
electrical property			
Short-time,500v/sec	ASTM D149	Kv/mm(V/mil)	16(410)
flammability			
flammability rating	UL94	-	V2

BEND

Oven Bending---evenly heating by Oven,temperature between 85~90℃ ,
after heating 5 minutes take the panel out of Oven and put it on the prepared
moulds,like below pictures,press and mould you want,then cooling the
bending panel

CUT

Wood saw,ceramic saw are all applicable for cutting,and portable manual
driller for drilling

LIGHT

Better use fluorescent lamp or neon light or LED,>15cm away from the resin
panel.if between 10~15cm,better use a refecting paper on the lamp back panel.

PRECAUTIONS

DAMAGE PREVENTION

Avoid prolonged exposure to strong chemicals such as acids, bases and
solvents.

REPAIRING

any dirt on the surface,use soap water or ammonia detergent to clean then dry
cloth to clean the surface.



Small cuts, scratches and stains grind it by using sand paper,first 800#(with water),second 1000#(with water),then use wax(usually car wax is ok.) to polish it.

Deeper cuts or damage due to shocks, such as cracks, may require the intervention of a service centre, in order to perform a craftsman like repair.