

アクリワーロン®



ARCYLIC WARLON

Acry Warlon faithfully recreates the design of the natural materials such as Washi paper while creating a softly lit space.

It is a versatile decorative acrylic resin plate with superior light resistance and workability.

和紙等の天然素材の意匠を忠実に再現し、 耐光性や加工性にも優れた多目的にご利用頂ける アクリル装飾樹脂板

Contact: +6019-8881-848

Email: malaysia@tatamihouse.com





SIZE VARIATION: 910 x 1820mm / 1100 x 1360mm / 1000 x 2000mm

THICKNESS : 1.0mm / 1.5mm / 2.0mm / 3.0mm / 5.0mm





SIZE VARIATION: 910 x 1820mm / 1100 x 1360mm / 1000 x 2000mm

THICKNESS : 1.0mm / 1.5mm / 2.0mm / 3.0mm / 5.0mm

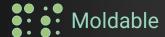




Portrays the original beauty of Washi paper and creates soft-lit spaces.



Portrays the unaltered feel and texture of Washi paper and gauze in addition to creating soft-lit spaces. PN model number products use a high light-transmitting milky white color as the base, allowing for use in settings where a high-degree of whiteness and prevention of glare from light sources are required.



Uses acrylic print film, making thermoforming and other types of molding possible just like typical acrylic resin sheets. (Please avoid thermoforming of 1.0mm-thick Acry Warlon.)

Easy upkeep

Washable with water and wiping with a damp cloth for simple cleaning.



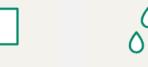
At least half the weight of glass, and safe with durability and difficulty of breakage.

Superior light and water resistance

Acrylic material offers incredible light and water resistance.







Washable





Where to use

- Shoji sliding doors and fittings
- Lighting Diffusers

- Room dividers and partitions
- Sign/display decorations







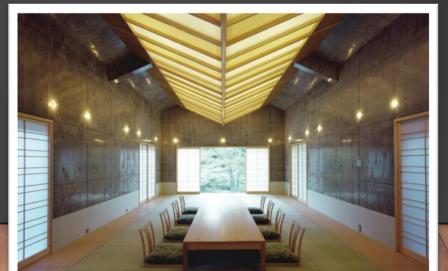
アクリワーロン P-2 (2.0mm) ACRY WARLON CODE: P-2



アクリワーロン P-52 (2.0mm) ACRY WARLON CODE: P-52



ACRY WARLON
Thickness: 5.0mm



アクリワーロン P-80 (3.0mm) ACRY WARLON CODE: P-80

APPLICATION ARCYLIC WARLON







アクリワーロンPN-2 雲竜 ACRY WARLON CODE: PN-2





アクリワーロンPN-2 雲竜 ACRY WARLON CODE: PN-2







アクリワーロン P-2 (2.0mm) **ACRY WARLON**

CODE: P-2



アクリワーロン P-420 (2.0mm)

ACRY WARLON CODE: P-420







アクリワーロン P-80 (5.0mm)

ACRY WARLON CODE : P-80



ACRY WARLON CODE: P-2









アクリワーロン P-2 (1.0 mm, 3.0 mm)

ACRY WARLON CODE: PN-2







アクリワーロン P-90(1.0mm) ACRY WARLON CODE: P-90

ARCYLIC

WARLON





Acry Warlon

Specifications

Printed Acrylic
< P / PN >
Printed film

Acrylic sheet

Acry Warlon is made of thin printed acrylic film layered on acrylic sheet. Can be heated to form custom shapes llike other acrylic sheet. Excellent material with water and light resistance.

Do not use ecru color patterns (P-80 • P-81 • P-85 • PN-80 • PN-81) outside, as the color may fade under UV rays.

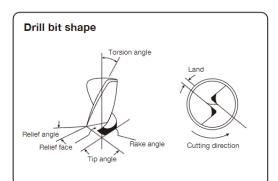
Suggested Applications

Drilling

Use a power drill or a boring machine.

Standard drill bit snape and guidelines		
Tip angle	90 - 140°	
Rake angle	0°	
Relief angle	15 - 20°	
Torsion angle	Large	
RPM	1000 - 2000RPM	

Standard drill hit shape and quidelines





Feeding speed



50 - 60 mm per minute

Cutting

Use panel saw, circular saw, band saw or jig saw.

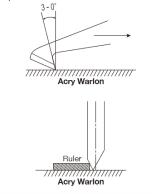
Panel saw/circular saw guidelines		
Saw diameter	255 - 305m/m	
Saw blade thickness	1.5 - 2.5m/m	
Number of teeth	100 -120	
Rake angle	0 - 1°	
Relief angle	20 - 40°	
Set angle	2 - 3°	
RPM	3000 - 4000 rpm	
Feeding speed	3 - 5 m per minute	

Band saw guidelines		
Saw width	3 - 10 m/m	
Pitch	10 - 20 per inch	
Saw blade thickness	0.7 - 0.9 m/m	
Saw speed	500 - 1000 m per minute	
Feeding speed	2 - 5 m per minute	

Jig saw guidelines		
Saw teeth	#1, #2, #3	
Saw speed	15 - 30m per minute	
Feeding speed	0.5 - 1.0 m per minute	

Scoring When cu

When cutting straight lines in small quantity, scoring method can be used. Score 1/3 of acrylic's thickness with a sharp blade. Hold acrylic with scored side up over a straight edge on a table, and press down until it snaps.



Adhering

Either side of Printed Acrylic (P/PN) products can be glued to other acrylic resin using acrylic adhesive.
 Note that adhesive may affect matting surface finish.

Forming/Bending

Note: Acry Warlon can be formed custom shapes by heat molding or heating with a bar heater.

However, surface finish may be affected by processing conditions (temperature, shape, etc.).

Form/bend at approximately 130 degrees Celsius (Acrylic's surface temperature).

Do not heat-mold or thermally bend 1.0 mm thick of Acry Warlon.



Note for application

- 1. Acry Warlon has a printed film on one side, so there is a front and back side.
- 2. Do not glue Acry Warlon to door frame/lattice. May cause warping/detaching. Use slot type frame.
- 3. For attaching Acry Warlon to aluminum door frame/panel, bead for resin is recommended.
- 4. Acry Warlon may start deforming, if temperature reaches 70 degrees Celsius.
- When used as a room divider and the temperature varies significantly from one side to the other, warping/sagging of Acry Warlon may occur.
- 6. Make frame/lattice span appropriate in order to avoid warping/sagging of Acry Warlon, especially for a large piece.
- 7. Expansion and contraction may cause gaps when used on a continuous, long ceiling light box. Adding frames or lattices to the joints may be necessary.

Dimensional change of Acry Warlon as a result of usage environment

Expansion and contraction due to temperature change

Acry Warlon expands at higher temperatures and contracts at lower temperatures. Acry Warlon with a length of 1000 mm expands and contracts by approximately 0.8 mm with a temperature change of 10 degrees Celsius. If the temperature difference between winter and summer is assumed to be 40 degree Celsius a little more than 3 mm of expansion and contraction is expected to occur.

Expansion and contraction due to changes in humidity

When humidity increases, Acry Warlon absorbs water and expands, and when humidity decreases, it dries out and shrinks. If the difference in humidity between the winter and summer months is 70%, Acry Warlon with a length of 1000 mm is expected to expand and contract by more than 3mm.

<Example>

When using Acry Warlon with a length of 1000 mm, the elongation is approximately 6.0 mm when the temperature difference between winter and summer is set to 40 degree Celsius and the humidity difference is 70% (20-90%). When using Acry Warlon, take this dimensional change into account before making a clearance. (Figure 1).

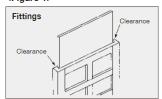
*Especially in winter (low temperature and low humidity environment), the growth rate is higher in summer.

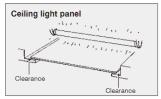
Horizontal use guidelines (maximum frame sizes in order to avoid sagging / warping of Acry Warlon.)

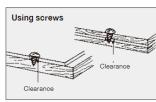
Frame shape Thickness	Square	Rectangular	Triangular (maximum side length)	Circular (diameter)
2.0mm	450mm×450mm	350mm×1800mm	up to 650mm	up to 440mm ϕ
3.0mm	600mm×600mm	400mm×1800mm	up to 850mm	up to 580mm ϕ
5.0mm	900mm×900mm	550mm×1800mm	up to 1200mm	up to 800mm $ arphi$

For vertical use: When a large piece of Acry Warlon is used vertically, appropriate frame/lattice is also required to avoid sagging of the product. Contact us for details.

<Figure 1>







UV block rate / Light transmittance

Item number	Thiokness(mm)	Light transmittanoe@	UV blook rate(%)
Printed Acrylic			
	1.0	76	95
	1.5	70	95
P-2	2.0	69	95
	3.0	65	95
	5.0	63	96
	1.0	69	95
	1.5	68	95
P-52	2.0	66	95
	3.0	63	95
	5.0	58	96
	1.0	62	96
	1.5	60	96
P-90	2.0	59	96
	3.0	54	96
	5.0	50	97
	1.0	66	96
	1.5	65	96
P-80	2.0	65	96
	3.0	61	96
	5.0	56	96
	1.0	68	96
	1.5	67	96
P-81	2.0	67	96
	3.0	63	96
	5.0	60	96
	1.0	64	97
	1.5	63	97
P-83	2.0	63	96
	3.0	57	98
	5.0	51	97
	1.0	67	96
	1.5	67	96
P-85	2.0	63	96
	3.0	63	96
	5.0	62	96
	1.0	69	95
5.05	1.5	68	95
P-95	2.0	64	95
	3.0	63	95
	5.0	61 61	96 97
	1.0		
D 07	1.5	60 59	97
P-97	2.0 3.0	56	96 97
	5.0	53	97
	5.0	55	91

Item number	Thiokness(mm)	Light transmittanoe(%)	UV blook rate(%)
Printed Acrylic	D		
PN-2	2.0	54	98
	3.0	52	98
	5.0	41	99
	2.0	53	98
PN-52	3.0	50	98
	5.0	39	99
	2.0	50	98
PN-90	3.0	46	99
	5.0	38	99
PN-80	2.0	45	98
	3.0	39	98
	5.0	31	99
	2.0	50	99
PN-81	3.0	46	99
	5.0	39	99
	2.0	48	99
PN-83	3.0	44	99
	5.0	39	99
	2.0	54	99
PN-95	3.0	50	99
	5.0	39	99
	2.0	48	98
PN-97	3.0	43	98
	5.0	35	99

Specifications

Thickness	1.0mm / 1.5mm / 2.0mm / 3.0mm / 5.0mm
Sizes *	910mm × 1820mm / 1100mm × 1360mm / 1000mm × 2000mm



