

PALOPAQUE™

Flat Solid Opaque PVC Sheet

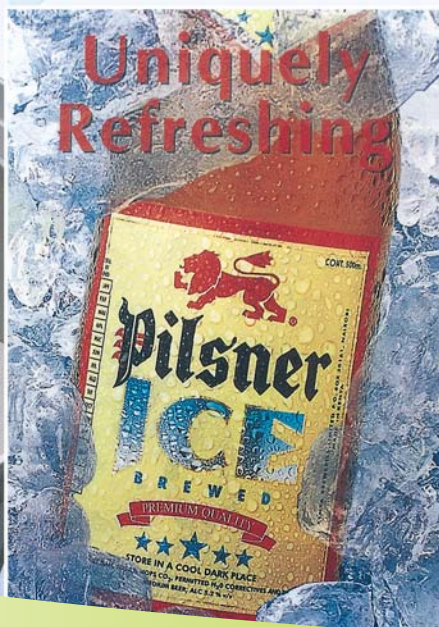
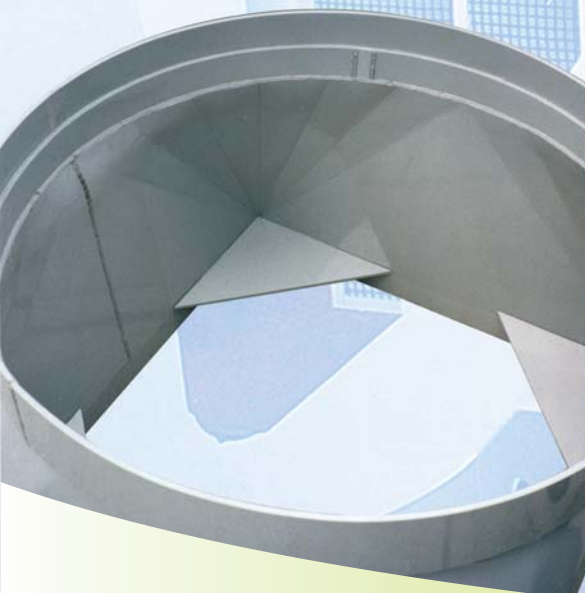


► Introduction

PALOPAQUE is a UV stabilized flat solid PVC sheet, with over 40 years of manufacturing experience that is reflected in its high quality. PALOPAQUE is easily formed or fabricated and is ideal for a wide variety of applications. PALOPAQUE makes an excellent printing substrate for the advertising and signage industries, suitable for both digital and traditional printing methods. With its high chemical resistance, PALOPAQUE is also highly suitable for industrial applications.

► Features at a Glance

- Easy to thermoform, bend and fabricate
- Excellent chemical resistance
- Resistant to chemical and corrosive environments
- Highest fire rating and self-extinguishing
- Glossy or matte surface
- Excellent electrical and thermal insulation
- High impact strength
- Weather resistant
- Comply with international standards
- Easy fabrication
- Non toxic
- Optional Matte finish on one side



► PALOPAQUE™ Product Range

Product	Description
PALOPAQUE™	Standard UV stabilized sheet for general purpose and thermoforming applications. *PALOPAQUE with increased UV resistance is available upon special request
PALOPAQUE™ Matte	With matte finish on one side

► Standard Dimensions

Width x Length mm	Thickness mm
1220 x 2440	1 to 15
1000 x 2000	1 to 10
1500 x 3000	1 to 6

* Custom sizes are available, subject to minimum quantity.

► Colors



* Custom colors are available, subject to minimum quantity.

** The indicated RAL designations are the closest color match.

► Flammability

PALOPAQUE is self-extinguishing and complies with the most demanding international fire resistance standards defined in the field of plastics, as indicated by representative results in the following table.

Standard	Classification*
DIN 4102	B-1
BS 476/7	Class 1
NSP 92501,5	M-1
CSE RF 3/77	Class 1
UL 94	V-0
ASTM D-635	SE

* Depends on thickness

► Fabrication

Sawing	Machining	Thermoforming	Drilling	Bonding	Welding
For both band and circular saws use blades with a minimum tooth set, and about 8 to 10 teeth per inch. Prevent overheating by feeding slowly.	Use low machining speeds for turning and shaping, and assure free removal of machining chips.	Between 130°C and 170°C PALOPAQUE sheets become formable and can then be formed, press molded or blow formed.	Use conventional drills, but be certain to remove free drill chips in order to avoid overheating of the sheet. Also, use slow rate of penetration.	PALOPAQUE sheets can be bonded with conventional solvent based PVC adhesives	PALOPAQUE extruded PVC sheets can be weld by hot-air welding process conventionally used for PVC.

Inasmuch as PALRAM Industries has no control over the use to which others may put the material, it does not guarantee that the same results as those described herein will be obtained. Each user of the material should make his own tests to determine the material's suitability for his own particular use. Statements concerning possible or suggested uses of the materials described herein are not to be construed as constituting a license under any PALRAM Industries patent covering such use or as recommendations for use of such materials in the infringement of any patent. PALRAM Industries or its distributors cannot be held responsible for any losses incurred through incorrect installation of the material. In accordance with our company policy of continual product development, you are advised to check with your local Palram Industries supplier to ensure that you have obtained the most up to date information.



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► Typical Physical Properties

Property	(Method*)	Conditions	Units	Value
Density	(D-1505)		g/cm ³	1.4
Heat Deflection Temperature	(D-648)	Load: 1.82 MP	°C	65 - 68
Service Temperature Range			°C	-20 to +50
Thermal Conductivity	(C-177)		W/m K	0.15
Coefficient of Linear Thermal Expansion (D-696)			cm/cm °C	6.7 x 10 ⁻⁵
Impact Falling Weight	(ISO 6603/1)	3 mm sheet	J	95
Rockwell Hardness	(D-785)		R Scale	97R
Tensile Strength at Yield	(D-638)	10 mm/min	MPa	52
Tensile Strength at Break	(D-638)	10 mm/min	MPa	50
Elongation at Yield	(D-638)	10 mm/min	%	3
Elongation at Break	(D-638)	10 mm/min	%	140
Tensile Modulus of Elasticity	(D-638)	1 mm/min	MPa	2,900
Flexural Strength	(D-790)	1.3 mm/min	MPa	80
Flexural Modulus	(D-790)	1.3 mm/min	MPa	2,700

* ASTM except where noted otherwise.

► Chemical Resistance

PALOPAQUE exhibits excellent Chemical Resistance with... mineral acids, alkalis, plating solutions, paper making chemicals, pickling solutions, other inorganic solutions and fumes thereof.

PALOPAQUE exhibits good Chemical Resistance with... alcohols, aliphatic hydrocarbons, glycols, amines, phenols.

PALOPAQUE is not recommended to come in contact with... ketones, aromatic hydrocarbons, chlorinated solvents, some esters and ethers.

More detailed information appears in Palram's "Chemical Resistance PVC products" document.