PALOPAQUE™

Flat Opaque PVC Sheet

CONSTRUCTION SIGN & DISPLAY FABRICATION

Overview

PALOPAQUE is a flat UV-stabilized PVC sheet, with over 50 years of manufacturing experience that is reflected in its high quality. Easily formed and fabricated, PALOPAQUE is ideal for a wide variety of applications.

PALOPAQUE makes an excellent printing substrate for the advertising and signage industries and is suitable for digital or traditional printing.

With its high chemical resistance, PALOPAQUE is highly suitable for industrial applications.

www.palram.com

Main Benefits

- Excellent chemical resistance
- High impact strength
- Easily fabricated and formed
- Highest fire rating, self-extinguishing
- Glossy, Matte Hair-Cell or surfaces
- High electrical and thermal insulation
- Easy fabrication
- Non toxic
- Optional increased UV resistance for outdoor applications

Typical Applications

- Signs and displays
- Point of purchase stands (P.O.P)
- Signs in the food, chemicals and pharmaceutical industries
- Fabricated items
- Chemical process industries
- Sterile surfaces in laboratories
- Air vents

Build On.

PALOPAQUE™

Colors*

White	Light Grey RAL 7040**	Dark Grey RAL 7015**	Metallic Grey RAL 9022**

* Custom colors are available, subject to minimum quantity.

** Indicated RAL designations are closest match.

Surface Finishes

PALOPAQUE is offered with glossy smooth finish on both sides as standard. Matte and Hair-Cell finishes on one side are optional.

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
2000 x 3000	1 to 4

* Custom dimensions are available, subject to minimum quantity.

Flammability

PALOPAQUE complies with the most demanding international fire resistance standards in the field of plastics, as indicated in the detailed table herein. The classification is subject to product type, thickness and color.

Product	Standard	Classification
PALOPAQUE™	EN 13501	B, s3, d0
	BS 476/7	Class 0
	ASTM E 84	Class A
	UL94	V0

*For more detailed information please contact your Palram distributor.

Typical Physical Properties

Property	Method*	Conditions	Units	Value
Density	D-792		g/cm^3	1.4
Heat deflection temperature (H.D.T)	D-648	Load: 1.82MPa	°C	65 - 68
Service Temperature			°C	-10 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}
Rockwell hardness	D-785		R Scale	97R
Tensile strength at yield	D-638	10 mm/min	MPa	50
Tensile strength at break	D-638	10 mm/min	MPa	45
Elongation at yield	D-638	10 mm/min	%	3
Elongation at break	D-638	10 mm/min	%	>80
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
Impact falling weight	ISO 6603/1 E_{50}	3 mm sheet	J	95

* ASTM except where noted otherwise

Resistance to Chemicals

Excellent resistance to... Mineral acids, alkalis, plating solutions, paper making chemicals, pickling solutions, other inorganic solutions and fumes thereof.

Good resistance to... Alcohols, aliphatic hydrocarbons, glycols, amines, phenols.

Not recommended to contact... ketones, chlorinated solvents, aromatic hydrocarbons, some esters and ethers.

*For more information please refer to "Chemical Resistance of PVC Products" available at www.palram.com or with your PALRAM distributor.

Fabrication Tips

PALOPAQUE can be easily fabricated using various techniques. Below are general recommendations for some of them.

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 welded by hot-air welding process conventionally used for PVC.

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