

PALOPAQUE®

Flat Rigid Opaque PVC Sheets

Introduction

PALOPAQUE rigid, opaque flat PVC sheets from Palram Industries Ltd, a leading manufacturer of PVC and polycarbonate sheets, are suitable for a wide variety of applications. PALOPAQUE sheets are readily formed and fabricated.

Features at a Glance

- Easy to thermoform and bend
- Resistant to chemical and corrosive environments
- Highest fire rating
- Glossy or matte surface
- Excellent electrical and thermal insulation
- High impact strength
- Weather resistant
- Comply with international standards
- Easy fabrication
- Installation with conventional tools
- No special handling required

Applications

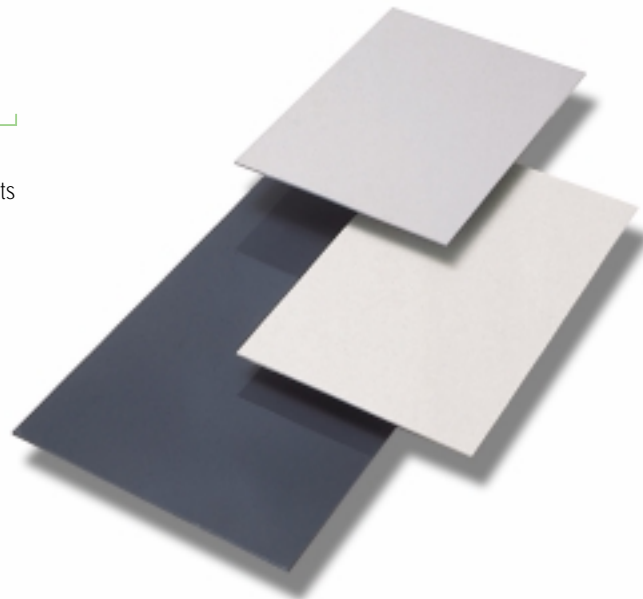
- Construction
- Chemical process industries
- Laboratories
- Advertising
- Sign-making
- Cladding
- Food grade available upon request

The PALOPAQUE® Product Line

PALOPAQUE® - Standard flat sheet

PALOPAQUE® UV - Flat sheet that is UV protected for external use

PALOPAQUE® UV TF - Flat sheet that is UV protected, intended for thermoforming products for external use



PALOPAQUE®

Table of typical properties (3 mm sheet)

Density	1.4 g/cm ³
Tensile Strength at Yield	52 MPa
Tensile Strength at Break	40 MPa
Elongation at Break	75%
Tensile Modulus	2,900 MPa
Flexural Strength	80 MPa
Flexural Modulus	3,050 MPa
Izod Impact Strength Notched	122 J/m
Impact Falling Weight (ISO 6603/1)	95J
Rockwell Hardness	97R
Service Temperature Range	0 °C to +50 °C
Heat Deflection Temperature (1.82 MPa)	65-68 °C
Coefficient of Linear Thermal Expansion	6.7 x 10 ⁻⁵ / °C
Thermal Conductivity	0.15 W/m K

Flammability

PALOPAQUE sheets are self-extinguishing and comply with the most demanding international fire resistance standards defined in the field of plastics, as indicated by representative results in the table below.

PALOPAQUE			
Country	Thickness	Method	Classification
Germany	all	DIN 4102	B-1
United Kingdom (UK)	all	BS 476/7	Class 1
France	all	NSP 92501,5	M-1
Italy	all	CSE RF 3/77	Class 1
United States	all	UL 94	V-0
United States	all	ASTM D-635	SE

Fabrication

Sawing	Machining	Thermoforming	Drilling	Bending	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 to assure easy removal of machining chips.	Between 130°C and 140°C (266°F and 284°F) Palopaque sheets become formable and can then be formed, press molded or blow formed.	Use conventional drills, but be certain to remove 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 are weldable by the hot-air welding process conventionally used for PVC.

Chemical Resistance

Excellent Chemical Resistance: mineral acids, alkalis, plating solutions, paper making chemicals, pickling solutions, other inorganic solutions and fumes thereof.

Good Chemical Resistance: alcohols, aliphatic hydrocarbons, glycols, amines, phenols.

Not Recommended with: ketones, aromatic hydrocarbons, chlorinated solvents, some esters and ethers.

More detailed information appears in: "Chemical Resistance of Palram Rigid PVC Sheets".

Colors*

Dark Grey
Light Grey
White

Dimensions* Available

Extruded sheet thickness: 1 to 10 mm
Width x Length: 1220 x 2440 mm
1000 x 2000 mm
1500 x 3000 mm

* Custom colors and sizes are available upon request, possibly subject to minimum order size.

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

Web Site: <http://www.paltough.com>

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PALRAM Industries

RAMAT YOHANAN 30035, ISRAEL Tel: (972)-4-8459900, Fax: (972)-4-8459980 E-mail: paltough@paltough.com

Europe PALRAM UK; Tel: (44)-1302-380738, Fax: (44)-1302-380739 E-mail: sales@palram.co.uk

Benelux Tel: (31)-165-315644, Fax: (31)-165-311955, E-mail: ebrand@okem.nl

France Tel: (33)-1-46750030, Fax: (33)-1-46750036, E-mail: palramfr.gilman@wanadoo.fr

Germany Tel: (49)-2922-860410, Fax: (49)-2922-909395, E-mail: palram.gdm@t-online.de

Italy Tel: (39)-0382-539691, Fax: (39)-0382-24555, E-mail: roaluffi@tin.it

USA SUNTUF INC.; Tel: (1)-973-5358222 (800-278-6883) Fax: (1)-973-5356124, E-mail: suntuf@suntuf.com

ASIA PALRAM ASIA-Singapore; Tel: (65)-2357074, Fax: (65)-2353321