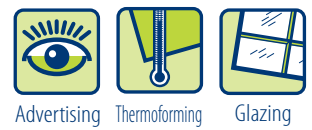




PALGLAS®

Extruded Acrylic Sheets



► Introduction

PALGLAS is an extruded high quality acrylic sheet manufactured by PALRAM Industries in Israel and the United Kingdom. PALGLAS is more transparent than glass. Its inherent UV resistance makes it ideal for outdoor applications. PALGLAS sheet can be formed, shaped, sawed and drilled.

► Features at a Glance

- Transparent - Above 90% Light Transmission
- Inherently UV Resistant
- Stronger Than Glass
- Light Weight - less than half the weight of glass
- Easily Formed or Fabricated
- Easy to Mount
- Good Chemical Resistance
- Good Thermal Insulation



► Typical Physical Properties

PROPERTY	(Method ASTM)	CONDITIONS	UNITS	VALUE
Density	(D-1505)		g/cm ³	1.19
Heat Deflection Temperature	(D-648)	Load: 1.82 MP	°C	91
Service Temperature Range			°C	-40 to +80
Coefficient of Linear Thermal Expansion			cm/cm °C	7.0 x 10 ⁻⁵
	(D-696)			
Thermal Conductivity	(C-177)		W/m K	0.19
Tensile Strength at Break	(D-638)	1 mm/min	MPa	70
Elongation at Break	(D-638)	10 mm/min	%	4
Tensile Modulus of Elasticity	(D-638)	10 mm/min	MPa	2800
Flexural Strength	(D-790)	1 mm/min	MPa	790
Flexural Modulus	(D-790)	1 mm/min	MPa	3200
Izod Impact Strength Notched	(D-256)	23 °C	J	16
Rockwell Hardness	(D-785)		R Scale	123R
Light Transmission	(D-1003)	Clear Sheet	%	92%
Haze (Clear Sheet)	(D-1003)	Clear Sheet	%	<1
Yellowness Index	(D-1003)	Clear Sheet		<1.5

► UV and Weather Resistance

PALGLAS is inherently UV resistant and its wide service temperature range, -40 °C to 80 °C, makes it suitable for outdoor applications. A limited warranty against yellowing is available.

► Resistance to Chemicals

PALGLAS is resistant to a wide range of chemicals at room temperature. Detailed information is available upon request.

► Forming and Fabrication

PALGLAS can be easily fabricated and machined. It can be thermoformed (pre-drying is strongly recommended for best results when thermoforming). PALGLAS is easily hot line bent and shaped into a wide variety of forms. PALGLAS can be bonded to itself and other materials. Additional details on how to work with PALGLAS is available upon request.

► Installation and Maintenance

Large PALGLAS sheets should always be installed using a framing system. PALGLAS thermal expansion is eight times that of glass and three times that of metal, this important factor must be taken into account when glazing. The polyethylene protective masking must be removed **immediately** after installation.

PALGLAS can easily be cleaned with a soft cloth or sponge, using a mild soap or detergent. Rinse and dry with a soft 100% cotton cloth or moist cellulose sponge to prevent water spotting.

Ask your PALRAM representative to assist you in selecting PALGLAS sheet with dimensions that are suitable for your applications.

► Colors and Dimensions*

- **Colors:** Transparent: Clear, Bronze
Translucent: White Opal
- **Standard Thickness:** From 2 to 10 mm
- **Nonstandard Thickness:** 1, 1.5 and from 12 to 20 mm
- **Width x Length:**
1250 mm x 2050 mm
1220 mm x 2440 mm
2050 mm x 3050 mm

* Other sizes and colors are available upon request

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.

