

AKRYLPLADER

Flat Extruded Acrylic Sheet



► Introduction

PALGLAS offers an unsurpassed light transmission, matching that of glass while offering half its weight. Inherently UV resistant, PALGLAS is the ultimate choice in high traffic acoustic barriers, resisting gasses emitted from vehicles. Its high clarity and formability offer designers a world of options, from small fabricated items to transparent furniture.

► Features and Benefits

- Transparent - Over 90% light transmission
- Inherently UV resistant
- Stronger than glass and less than half its weight
- Can be formed and fabricated
- Easy to mount
- Good chemical resistance
- Good thermal insulation

► Typical Applications

- High traffic acoustic barriers
- Lightweight high clarity glazing
- Fabricated items with high gloss and transparency
- Light fixtures
- Three dimensional signage



► Typical Physical Properties

Property	(ASTM Method)	Conditions	Units	Value
Density	(D-792)		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	(D-696)		cm/cm °C	7,0 x 10 ⁻⁵
Thermal Conductivity	(C-177)		W/m K	0.19
Tensile Strength at Break	(D-638)	1 mm ² /min	MPa	70
Elongation at Break	(D-638)	10 mm ² /min	%	4
Tensile Modulus of Elasticity	(D-638)	1 mm ² /min	MPa	3200
Flexural Strength	(D-790)	1 mm ² /min	MPa	110
Flexural Modulus	(D-790)	1 mm ² /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

► Forming and Fabrication

PALGLAS can be fabricated, machined and 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.

► 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.

► Standard 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: 2050 x 3050 mm

* Other sizes and colors are 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.

► Resistance to Chemicals

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



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