



PALGARD™

Flat Solid Abrasion Resistant Polycarbonate Sheet



FABRICATION



GLAZING



CONSTRUCTION



Overview

PALGARD is a flat UV, solid polycarbonate sheet, featuring an advanced surface coating that provides superior abrasion and chemical resistance. Combined with its high impact strength, PALGARD excels in resisting vandalism, graffiti spraying and physical attack.

Designed to withstand the increased wear and tear of high traffic areas, PALGARD is ideal for use in public space installations, manufacturing environments, highway sound barriers, in addition to protective shielding and glazing applications.

PALGARD can also be glass laminated for ballistic applications.

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Main Benefits

- High abrasion resistance on one or both sides
- Impact resistant
- Up to 90% light transmission
- Excellent acoustical insulation
- Blocks UV radiation better than sunscreen lotions
- Resistant to acts of vandalism
- Improved chemical resistance
- Easy to mount and install
- Lightweight



Typical Applications

- Safety glazing
- Security and ballistic resistant glazing
- Industrial protective shielding
- Anti-vandal glazing
- Prison windows
- Sound barriers
- Transportation shelters
- Protective shields and visors
- Recreational vehicle (ATV, golf cart) glazing



Product Availability*

Width x Length in. (mm)	Thicknesses in. (mm)	Colors
48 x 96 (1200 x 2440)	.060 - 0.50 (1.5 to 12.7)	Clear, Bronze,* Gray*
60 x 96 (1524 x 2440)*		
72 x 96 (1830 x 2440)*		

*Special dimensions and colors are available, subject to minimum order.

Mounting and Cleaning

PALGARD can be mounted into most existing frames made of PVC, aluminum or other metals. It is recommended to use neoprene or EPDM packing (*never use soft PVC*) in order to secure the sheet in its frame, rather than fixing with screws. Butyl rubber sealing strip or silicone sealant are also permissible. Any of the above materials, chemical substances, or cleaning agents must explicitly receive the manufacturer's approval before their use with or on PALGARD.

PALGARD can easily be cleaned with a soft cloth made from 100% cotton using mild soap solution and rinsing with cold water. It is best to use mild dish cleaning preparations. Commercial spray cleaners are available. Please consult with your local Palram representative for recommended commercial preparations available locally. Installation instructions and a list of compatible materials are available upon request.



Bent & Thermoformed Applications

PALGARD Flex is available for bent or thermoformed applications. Notify your Palram representative if your application requires bending or thermoforming.



Chemical & Abrasion Resistance

The unique coating on PALGARD's surface is the source for its chemical and abrasion resistance. This coating provides PALGARD with a chemical resistance durable to various materials ranging from corrosive elements and solvents to cleaning agents. Graffiti spray can easily be removed and the sheet is ideal for industrial environments where volatile chemicals are present.

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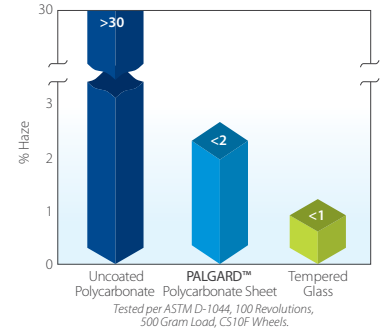
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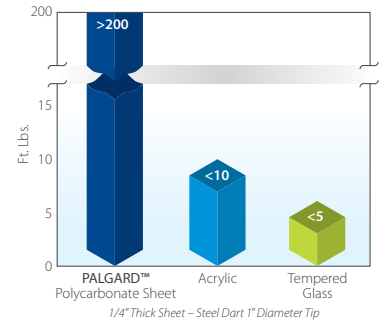
Taber Abrasion

Taber abrasion is a test to determine a plastic's resistance to abrasion. Resistance to abrasion is defined as the ability of a material to withstand mechanical action such as rubbing, scraping, or erosion



Impact Resistance

PALGARD weighs in at approximately half the weight of glass, yet offers more than 200 times its impact strength. The result is better protection against vandalism, breakage, and unplanned maintenance.



Regulatory Code Compliance Certification

Organization	Standard	Classification*
ANSI	Z97.1-09	Approved Impact & Weathering
CPSC	16 CFR 1201	Category I or II
ASTM	F1915-05	Level 4 (3/8" thickness) Level 3 (1/2" thickness)
ASTM	D635-10	Class CC1 and/or HB
UL	UL972	Pass

*Depends on thickness



Palgard was chosen by its designers as the perfect glazing material for this pedestrian bridge.

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