



PALGARD™

Flat Solid Abrasion Resistant Polycarbonate Sheet



Overview

PALGARD is a flat UV and abrasion resistant solid polycarbonate sheet, delivering a winning combination of physical properties. PALGARD excels in resisting vandalism, graffiti spraying and physical attack.

The sheet is also more resistant to a wider variety of chemicals and the increased wear and tear of high traffic areas. PALGARD can also be glass-laminated for ballistic application purposes.

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



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Product Availability*

Width x Length in. (mm)	Thicknesses in. (mm)	Colors
48 x 96 (1200 x 2440)	0.118 - 0.50	Clear, Bronze,* Gray*
60 x 96 (1524 x 2440)*	(3 to 12.7)	
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 and Thermoformed Applications

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

Chemical and 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.



In addition, high abrasion resistance, when matched with mechanically superb polycarbonate, allows PALGARD's designation to a variety of specialty applications.

Regulatory Code Compliance Certification

Organization	Standard	Classification*
ANSI	Z97.1-09	Approved Impact and 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



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