



# PALGARD™ 3X

Flat Abrasion Resistant Polycarbonate Sheet for High Traffic Interiors



## Overview

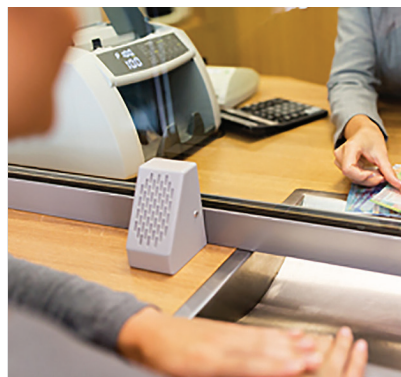
PALGARD 3X is an abrasion resistant polycarbonate sheet for interior and short-term exterior applications. Its advanced surface coating provides excellent chemical and abrasion resistance, enabling frequent cleaning, easy removal of graffiti and increased durability in high traffic areas. As a polycarbonate sheet, PALGARD 3X is inherently impact resistant for increased safety and security – nearly 200 times stronger than glass, yet half the weight – also making it easier and safer to install.

PALGARD 3X is an ideal solution for glazing in entry ways, kiosks, teller windows, sign covers, interior partitions, machine guards and more.

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## Main Benefits

- Economical alternative to exterior-grade Palgard
- High abrasion resistance on one or both sides
- Impact resistant, virtually unbreakable
- Up to 90% light transmission
- Excellent acoustical insulation
- Blocks UV radiation
- High chemical resistance
- Easy removal of graffiti
- Lightweight



## Typical Applications

For interior and short-term exterior use

- Safety glazing
- Industrial protective shielding
- Interior windows & doors
- Anti-vandalism glazing
- Sound barriers
- Room dividers, partitions, entryways
- Wayfinding and signage covers
- Conference room glazing
- Temporary glazing



## Product Availability\*

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

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

## Mounting and Cleaning

PALGARD 3X 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 3X.



PALGARD 3X can be easily 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

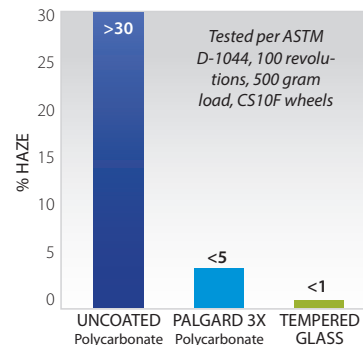
available locally. Installation instructions and a list of compatible materials are available upon request.

## Chemical & Abrasion Resistance

The unique coating on PALGARD 3X's surface is the source for its chemical and abrasion resistance. This coating provides PALGARD 3X 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.

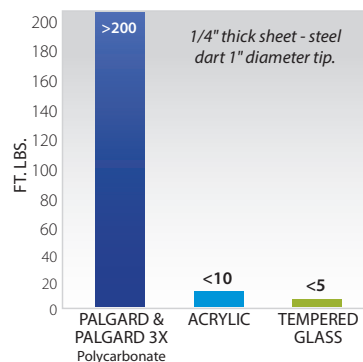
## Taber Abrasion

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 3X 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.



Break bending not recommended.

## Regulatory Code Compliance Certification

Organization	Standard	Classification*
ASTM	D635	CC1 and/or HB
ASTM	E84	Flame Spread – Class B*
ASTM	D2843	Smoke Density <75
ASTM	D1929	>650°F
UL	972	Pass

\*Depends on thickness

## Product Selection Chart

Attribute	PALSUN UV	PALGARD 3X	PALGARD
Impact Resistance	BEST	BEST	BEST
Chemical Resistance	GOOD	BEST	BEST
Abrasion Resistance	GOOD	BETTER	BEST
Optical	BEST	BETTER	BETTER
Cost	BEST	BETTER	GOOD
Warranty Term	BEST	GOOD	BETTER



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