



# Palboard™ Multi-Layer PVC

Extruded PVC Sheet for Printing & 3D Displays

## Description and Overview

Palboard™ is a new multi-layer PVC sheet composed of both smooth PVC and foam PVC. It comes in two variants, Palboard 3D and Palboard 2D. Palboard 3D is a three-layered PVC sheet, while Palboard 2D is a two-layered PVC sheet. Palboard™ has been tested to EN13501 and UL94 flammability standards and has been rated UL94 V-0, meaning it is flame retardant.

Easy to fabricate and thermoform, Palboard™ bendable PVC can be cold-formed with v-cuts. Its ultra-smooth and uniform surface resists the dents and scratches that signs often experience in outdoor environments and high-trafficked areas thanks to a protective film. Palboard™ has a high white index that allows for vibrant color reproduction and is only further enhanced by PVC's inherent excellent ink adhesion.

## Applications and Uses

Palboard™'s dent and scratch-resistance are especially important for outdoor signage, but are equally important for indoor signage. Its white index and high ink adhesion allow it to provide unique and eye-catching signs in various applications, including:

- POP signs
- Retail displays
- Exhibits and kiosks
- Industrial and construction signage
- Routing and relief lettering



## Properties and Specifications

### Physical Properties

Property	Method	Conditions	Units	Value
Density	ASTM D-792	-	g/cm3	0.58 - 0.62
Water Absorption	ASTM D-570	24 hr @ 23°C	%	3mm - 0.5 5mm - 0.8

### Mechanical - Machine direction

Flexural modulus	ASTM D-790	-	MPa	1,600
Shore hardness	ASTM D-2240	-	Shore D	60

### Thermal

Service temp. range	-	-	°C	-10 to 55
Heat deflection temperature	ASTM D-648	Load: 1.82 MPa	°C	62
Coefficient of linear thermal expansion	ASTM D-696	-	10 <sup>-5</sup> /°C	6.7

### Electrical

Surface resistance	ASTM D-257	-	Ohm	4.1x10 <sup>14</sup>
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Properties are typical.  
Chem is an abbreviation for chemically affixed with glues, chemicals, or adhesive.  
Mech is an abbreviation for mechanically affixed bonding.  
Field testing is recommended for any application.

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**WARNING:** This product can expose you to chemicals including Polyvinyl Chloride, CAS 9002-86, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



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