



PALBOARD® Family Guide

PALBOARD STRUCTURES

	PALBOARD® 2D	PALBOARD® 3D			PALBOARD® 3D Max
	Two-Layer Substrate Sheets	Three-Layer Substrate Sheets			Three-Layer Extra Rigid Sheets
	A bright white, rigid, ultra-smooth surface, and a structural back layer	Two ultra-smooth surfaces and a dense foam core			An extra durable PALBOARD version
Typical Applications	Digital & screen printing Signage and decorative panels Routed Relief lettering POP and retail displays Simpe 3D modeling	POP and retail 3D displays Store fixtures Fabricated & structural part Digital & screen printing Routed & relief lettering Tradeshow and exhibition displays Shelving & organizational storage			High performance, extra durable POP and retail 3D displays Shelving and organizational storage units Fabricated & structural parts Digital & screen printing Tradeshow and exhibition displays
Thickness	2mm-10mm	2mm	3mm-8mm	10mm	2mm-6mm
Width	1220/2030	1220/1500	1220/1500/2050	1220	1220/1500
Surface Color Options	White	White	White, Black, Custom color matching	White	Custom color matching
Surface Finish	Smooth. Semi-Gloss	Smooth. Semi Gloss			Hair Cell Embossed
Core Colors	Black	Black or White			Custom color matching
Ink Adhesion	Excellent				
Interior/ Exterior	Interior Only	White surface: Exterior & Interior Black Surface: Interior Only			Interior Only
Cutting	CNC Band/Circular Saw Die Cut Utility Knife (2-3mm)	CNC Band/Circular Saw Die Cut Utility Knife (2-3mm)			CNC Band/Circular Saw Die Cut
V-Grooving, Routing	Very Good	Very Good	Excellent		Excellent
Recyclability	100% Recyclable				
Material content	PVC. Up to 50% Recycled Content				
Flame Retardancy	Limited contribution to fire				
Warranty	10 Year	10 Year. 3 Year Exterior Use			10 Year

SPECIAL PALBOARD VERSIONS

	PALBOARD® Terra	PALBOARD® HDT	PALBOARD® HYG
	Made with Climate-Positive UBQ™	High Density & High Heat Resistance	Hygienic Multilayered Sheet
	An ecological alternative to conventional sign & display substrates	For interior automotive components	With active anti-microbial features
Typical Applications	Digital & screen printing Retail & advertising signage Carpentry	Railway cars interior cladding Machine guards Casing systems Air ducts Mechanical elements covers	Medical carts Fresh food processing areas Partitions and counters
Structures	3D	3D Max	2D/3D
Width	1220	1220/1500	1220/2030
Surface Colors	White	Grey	White
Surface Finish	Semi-Gloss	Hair Cell Embossed	Semi-Gloss
Core Colors	Grey	Grey	Black or White
Ink Adhesion	Excellent		
Interior/ Exterior	Interior Only		
Cutting	CNC Band/Circular Saw Die Cut		CNC Band/Circular Saw Die Cut Utility Knife (2-3mm)
V-Grooving, Routing	Good	Excellent	
Recyclability	100% Recyclable		
Material content	Climate-Positive UBQ™, High Recycled Content PVC	PVC. Up to 50% Recycled Content	
Flame Retardancy	Limited contribution to fire		
Warranty	10 Year		

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PALBOARD TECHNICAL DATA SHEET

		Standard	PALBOARD® 2D	PALBOARD® 3D	PALBOARD® 3D Max	PALBOARD® 3D Max HDT	PALBOARD® Terra 3D
Physical	Density	ASTM D-792 g/cm ³	2mm 0.62 5mm 0.60	3mm 0.62 5mm 0.60 10mm 0.58	2mm 1.07 4mm 1.07 6mm 1.07	3mm 1.3	3mm 0.62 5mm 0.60 10mm 0.58
	Moisture Absorption	ASTM D-570 24 hr @ 23°C	< 1%				< 8%
Mechanical	Flexural Modulus	ASTM D-790	1300 Mpa		2300 Mpa	3000 Mpa	1200 Mpa
	Shore Hardness	ASTM D-2240	55 Shore D		75 Shore D	78 Shore D	40 Shore D
Thermal	Service Temperature Range		-10°C to 50°C			-10°C to 60°C	-10°C to 50°C
	Heat Deflection Temperature	ASTM D-648 1.82 MPa	55°C			65°C	52°C
	Coefficient of Linear Thermal Expansion	ASTM D-696	6.7 10 ⁻⁵ /°C				
Electrical	Surface Resistance	ASTM D-257	>10 ¹⁵ Ohm				

FIRE REACTION CLASSIFICATION

Product	Thickness (mm)	Color	Standard	Classification
PALBOARD 3D	3.0	WWW	EN 13501-1	B-s2, d0
	3.0-5.0	WBW	NFP 92 501-507	M1
	3.0-10.0	WBW	EN 13501-1	C- s3, d0
		WBW	UL 94	V0
PALBOARD 3D Max	2.0	Black	EN 13501-1	B-s2, d0
	2.0-4.0	All Colors		C- s3, d0
PALBOARD Terra 3D	3.0	WGW		C- s2, d0
	3.0-10.0	WGW		C- s3, d0



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