KYDEX® 3D Laminates for membrane pressed and flat lamination applications

INTRODUCTION

KYDEX® 3D thermoplastic laminates give designers the ability to incorporate compound corners and contoured edges, logos, and wire management holes while eliminating unsightly seams and the need for edge banding typically associated with HPL/TFM surfaces. Its high impact resistance minimizes costly maintenance associated with other membrane pressed and flat laminates. Available in Extreme Durability (XD), Extreme Durability with antimicrobial product protection (XD MB), and Wood Grain (XDWG) product grades.

WHERE TO USE KYDEX® 3D LAMINATES

- Store fixtures
- Checkout counters
- Exhibits and displays
- Moldings
- Transaction surfaces
- Tabletops
- Flat laminated panels
- Kiosks
- Cabinetry
- Door and drawer fascias
- Pedestals and stands
- Workstations
- Logo and trademark panels

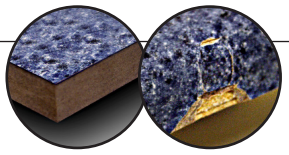
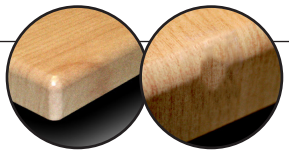
WHICH KYDEX® 3D LAMINATE TO CHOOSE

KYDEX® 3D Laminate product grade comparison:

KYDEX® XD	KYDEX® XDWG
Extreme durability surface coverage	Available in 12 stocked wood grains
Low minimum order quantities for custom colours	Substrate colour matched to wood grain
Deep draws due to high extensibility	Can be sold by the sheet
Available in multiple textures.	All designs have matching vinyl film as well as HPL or TFM

WHY USE KYDEX® 3D LAMINATES

KYDEX® 3D Laminates compared with HPL:

HPL	KYDEX® XD
Fractures and Chips	Resists Gouges / Extreme Durability
Unable to form to curved surfaces and complex shapes requiring seams	Able to seamlessly form to complex shapes and draw over deep recesses
Loses colour integrity even with shallow scratches	Integral colour reduces visibility of surface scratches
	

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MEMBRANE PRESSING CONDITIONS

Average Membrane Pressing Processing Conditions:

	Pre-Blowing Time	Preheating Time	Pressing Time	Cooling Time	Top Heater Temperature	Bottom Heater Temperature	Pressure
KYDEX® XD	1 second	70-80 seconds	65-75 seconds	80-90 seconds	130°C - 150°C (266°F - 302°F)	82°C - 88°C (180°F - 190°F)	2 Bars (29 psi)
KYDEX® XDWG	1 second	120-140 seconds	85-95 seconds	110 seconds	130°C - 150°C (266°F - 302°F)	82°C - 88°C (180°F - 190°F)	2 Bars (29 psi)

Values above are for comparison only. For recommended conditions specific to your membrane press type, please contact **appLab™** *at 1.800.682.8758*

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This information supersedes all previously published data.

