

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

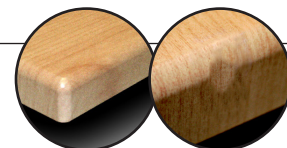
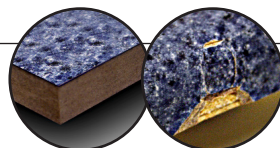
KYDEX® 3D Laminate product grade comparison:

| 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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