KYDEX® XD 3D Laminate
For flat lamination and membrane pressed applications

Introduction

KYDEX® XD is a thermoplastic 3D laminate giving designers the ability to incorporate compound corners, logos, and wire management holes while eliminating unsightly seams and the need for edgebanding typically associated with HPL / TFM surfaces. Its integral color and superior impact resistance minimizes costly maintenance associated with other laminates.

General Information

Extreme durability (XD), superior impact, membrane pressable thermoplastic 3D laminate with integral color from 0.76mm-1.02mm (0.030"-0.040") thickness. While providing good definition it surpasses vinyl overlays, high pressure laminates and melamine in resistance to surface and edge impact.

Suggested Applications

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

Features

• Tough and durable
• Resistant to cracking and chipping
• Solid, integral color
• 3500+ custom colors
• Resistant to a wide range of chemicals
• Abrasion resistant
• Fire retardant
• Excellent fabrication qualities
• Very low moisture absorption
• Membrane pressable
• Flexibility allows small radius bends
KYDEX, LLC is committed to ensuring that its products can be manufactured, transported, stored, used, disposed and recycled with an appropriate regard for safety, health and environmental protection. We support the safe handling of our products. Please contact our Technical Service department at 800.682.8758 for resources or visit our website: http://www.kydex.com. For Material Safety Data Sheets, please call 800.325.3133.

**Physical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Typical Value¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Gravity</td>
<td>ASTM D-792</td>
<td>1.35</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM D-638</td>
<td>6,100 psi, 42 MPa</td>
</tr>
<tr>
<td>Tensile Modulus</td>
<td>ASTM D-638</td>
<td>351,000 psi, 2416 MPa</td>
</tr>
<tr>
<td>Elongation %</td>
<td>ASTM D-638</td>
<td>126</td>
</tr>
<tr>
<td>Flexural Strength</td>
<td>ASTM D-790</td>
<td>9,600 psi, 66 MPa</td>
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<tr>
<td>Modulus of Elasticity</td>
<td>ASTM D-790</td>
<td>360,000 psi, 2480 MPa</td>
</tr>
<tr>
<td>Notched Iod Impact Resistance</td>
<td>ASTM D-256</td>
<td>15 ft-lbs/in, 801 J/m</td>
</tr>
<tr>
<td>Rockwell Hardness (R Scale)</td>
<td>ASTM D-785</td>
<td>94</td>
</tr>
<tr>
<td>Heat Deflection Temperature (HDT)</td>
<td>ASTM D-648</td>
<td>151°F, 168°F, 66.2°C, 75.6°C</td>
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<tr>
<td>Abrasion Resistance¹</td>
<td>ASTM D-1044</td>
<td>0.0095</td>
</tr>
<tr>
<td>Ball Impact Resistance²</td>
<td>NEMA LD3 - 2005</td>
<td>&gt; 3000</td>
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<tr>
<td>Dart Impact Resistance²</td>
<td>NEMA LD3 - 2005</td>
<td>&gt; 1000</td>
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<tr>
<td>Cleanability</td>
<td>NEMA LD3 - 2005</td>
<td>16</td>
</tr>
<tr>
<td>Surface Burning Characteristics:²</td>
<td>ASTM E-84</td>
<td>Class 1/A</td>
</tr>
</tbody>
</table>

¹ Values based upon 3.20mm (0.125”) sheet unless otherwise specified.
² Values based upon 1.02mm (0.040”) sheet.
³ Type CS10F wheel, 500gm load, weight loss (gms) per 1000 cycles. Not intended for specification purposes.

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This information supersedes all previously published data.

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