KYDEX® Thermoplastic Sheet

High impact, thermoplastic sheet that is tough, durable, and easy to form

KYDEX® Thermoplastic Sheet is widely used for:
- Kiosks, exhibits, and display bases
- Counters, workstations, and kickplates
- Furniture components, shelving, and cabinetry
- Medical device and closures
- Flat laminated panels of all types
- Thermoformed equipment housings
- Aviation and mass transit interiors
- Membrane pressed components

Performance characteristics:
- Easy to thermoform deep-draw parts
- Maintains excellent part definition and crisp detail
- High impact resistance to breakage
- Good strength and stiffness
- Easy machining and fabricating using conventional methods and equipment
- Consistent color throughout the KYDEX® material helps hide scratches and wear

Available in:

KYDEX® Thermoplastic Sheet Material Options

Bonding KYDEX® Thermoplastics – Use Plexus® MA300, a fast-setting methacrylate adhesive, to create stronger bonds than the KYDEX® Sheet itself.

KYDEX® 100 – Rigid, tough, durable, plastic alloy sheet available in a wide range of standard and custom colors, textures, and sheet sizes. It is Underwriters Laboratories® Inc. recognized for UL Std 94 V-0, 5V and has 961 J/m (18 ft-lbs/in) Notched Izod impact resistance.

KYDEX® T – High impact fire-rated sheet that is less hygroscopic and usually does not require pre-drying. Offers more uniform forming with less wall thinning. Greater resistance to a broad range of corrosive chemicals and cleaning solutions.

KYDEX® T Sheet for O&P – Used by fabricators in the orthotics industry for neck braces, body jackets and upper extremity orthoses. KYDEX® Sheet provides rigidity, excellent formability, and mar-resistance.

TYPICAL PROPERTIES OF KYDEX® THERMOPLASTIC SHEET

<table>
<thead>
<tr>
<th>Property</th>
<th>UNITS</th>
<th>ASTM TEST</th>
<th>KYDEX® 100</th>
<th>KYDEX® T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile strength</td>
<td>psi</td>
<td>D638</td>
<td>6,100</td>
<td>6,100</td>
</tr>
<tr>
<td>Flexural modulus</td>
<td>psi</td>
<td>D790</td>
<td>335,000</td>
<td>360,000</td>
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<tr>
<td>Izod impact (notched)</td>
<td>ft-lbs/in of notch</td>
<td>D256</td>
<td>18.0</td>
<td>15.0</td>
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<tr>
<td>Heat deflection temperature @ 264 psi</td>
<td>°F</td>
<td>D648</td>
<td>173</td>
<td>168</td>
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<tr>
<td>Maximum continuous service temperature in air</td>
<td>°F</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Water absorption (immersion 24 hours)</td>
<td>%</td>
<td>D570</td>
<td>0.05-0.08</td>
<td>0.08</td>
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<tr>
<td>Coefficient of linear thermal expansion</td>
<td>in/in/°Fx10⁻⁵</td>
<td>D696</td>
<td>4.2</td>
<td>3.8</td>
</tr>
</tbody>
</table>

Values may vary according to brand name. Please ask your Curbell Plastics representative for more specific information about an individual brand.