**KYDEX® 6503**

Integral pearlescent low heat release aviation sheet

**Introduction**

KYDEX® 6503 is a proprietary, high performance thermoplastic sheet specifically formulated to meet the safety needs of the aviation industry. Integrially pearlescent, this sheet is perfect for use with LED lighting or on its own.

**General Information**

KYDEX® 6503 meets all fire retardancy requirements set forth in Federal Aviation Regulations 25.853 paragraphs (a) and (d) (old (c) including low heat release (65 / 65) in the OSU rate of heat release test. Its excellent properties make it the ideal material to form 2 and 3-dimensional aircraft components.

**Suggested Applications**

- Seat parts
- Armrests
- Passenger service units
- Kick panels
- Bulkhead laminates
- Life vest shrouds
- Tray tables
- Window shades
- Moulding strips
- Monitor shrouds

**Features**

- Highlighted in a collection of 28 developed colours, colour matching also available
- Available in P-3 texture and thicknesses from 0.71mm (0.028”) to 3.18mm (0.125”)
- Easy to clean with aggressive cleaners such as Soft Scrub®, Fantastic®, and citrus-based cleaners such as Citri Kleen® (avoid ammoniated cleaners)
- Meets the stringent requirements of FAR 25.853 paragraph (d) in all thicknesses and colors
- Forms deep draws with low forces when heated to the upper end of forming temperature range
- Crisp detail, minimal rejects
- Can be formed on all standard presses and cut on all standard die-cutting machines
- Secondary operations include: machining, sawing, blanking, punching, etc. are easily performed

**Environmental and Safety Considerations**

SEKISUI SPI 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.sekisui-spi.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>1.48</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM D-638</td>
<td>45 MPa 6,500 psi</td>
</tr>
<tr>
<td>Flexural Strength</td>
<td>ASTM D-790</td>
<td>70 MPa 10,100 psi</td>
</tr>
<tr>
<td>Modulus of Elasticity</td>
<td>ASTM D-790</td>
<td>2,896 MPa 420,000 psi</td>
</tr>
<tr>
<td>Dynatup 23°C (73°F)</td>
<td>Max. Energy</td>
<td>7.24 J 5.34 ft-lbs</td>
</tr>
<tr>
<td></td>
<td>Cum. Energy</td>
<td>130.65 J 96.36 ft-lbs</td>
</tr>
<tr>
<td>Rockwell Hardness (R Scale)</td>
<td>ASTM D-785</td>
<td>98</td>
</tr>
<tr>
<td>Heat Deflection Temperature (HDT)</td>
<td>ASTM D-648</td>
<td>78.3°C 173°F</td>
</tr>
<tr>
<td>Flammability:</td>
<td>FAR 25.853 (a)</td>
<td>Pass</td>
</tr>
<tr>
<td>Flammability:</td>
<td>FAR 25.853 (d)</td>
<td>(a) Pass (b) &lt; 65 / 65</td>
</tr>
<tr>
<td>Forming Temperature</td>
<td></td>
<td>163 - 200°C 325 - 390°F</td>
</tr>
</tbody>
</table>

¹ Values based upon 3.18mm (0.125”) sheet unless otherwise specified. Not intended for specification purposes.

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This information supersedes all previously published data.