KYDEX® 6565
Low heat release aviation sheet

Introduction
KYDEX® 6565 is a proprietary, high performance thermoplastic sheet specifically formulated to meet the safety needs of the aviation industry.

General Information
KYDEX® 6565 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
- Window shades
- Life vest shrouds
- Passenger service units
- Monitor shrouds
- Bulkhead laminates
- Armrests
- Moulding strips
- Tray tables
- Kick panels

Features
- Available in over 200 developed colours, various textures and thicknesses ranging from 0.71mm (0.028") and up
- 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.

SEKISUI SPI
ISO 9001 and 14001 Certified

Customer Service
6685 Low St, Bloomsburg, PA 17815 USA
Phone: 800.325.3133, +1.570.389.5810
Outside the US: +1.570.389.5814
Fax: 800.452.0155, +1.570.387.7786
Email: info@sekisui-spi.com

Technical Service
Phone: 800.682.8758
Fax: +1.570.387.8722
Outside the US: +1.570.387.6997
technicalservice@sekisui-spi.com

sekisui-spi.com
### Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Typical Value</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>
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<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) @ 1.8 MPa (264 psi) annealed</td>
<td>ASTM D-648</td>
<td>78.3°C, 173°F</td>
</tr>
<tr>
<td>Flammability: Vertical Burn, 60-second</td>
<td>FAR 25.853 (a)(i)</td>
<td>PASS</td>
</tr>
<tr>
<td>Flammability: Vertical Burn, 12-second</td>
<td>FAR 25.853 (a)(ii)</td>
<td>PASS</td>
</tr>
<tr>
<td>Flammability: OSU Heat Release</td>
<td>FAR 25.853 (d) Part IV</td>
<td>Total: &lt;65 kw-min/m², Total: &lt;65 kw/m²</td>
</tr>
<tr>
<td>Flammability: NBS Smoke Density</td>
<td>FAR 25.853(d) Part V</td>
<td>D max &lt;200</td>
</tr>
<tr>
<td>Forming Temperature</td>
<td>163 - 200°C</td>
<td>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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