

## 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](mailto:info@sekisui-spi.com)

#### Technical Service

Phone: 800.682.8758  
Fax: +1.570.387.8722  
Outside the US: +1.570.387.6997  
[techservice@sekisui-spi.com](mailto:techservice@sekisui-spi.com)

[sekisui-spi.com](http://sekisui-spi.com)

Distributed by:

 **Piedmont Plastics®**  
where solutions take shape

Toll Free: 1.800.277.7898

[www.piedmontplastics.com](http://www.piedmontplastics.com)

## KYDEX® 6565 Low heat release aviation sheet

### Physical Properties

Property	Test Method	Typical Value <sup>1</sup>	
Specific Gravity	ASTM D-792	1.48	
Tensile Strength	ASTM D-638	45 MPa	6,500 psi
Flexural Strength	ASTM D-790	70 MPa	10,100 psi
Modulus of Elasticity	ASTM D-790	2,896 MPa	420,000 psi
Dynatup 23°C (73°F)	Max. Energy Cum. Energy	7.24 J 130.65 J	5.34 ft-lbs 96.36 ft-lbs
Rockwell Hardness (R Scale)	ASTM D-785	98	
Heat Deflection Temperature (HDT) @ 1.8 MPa (264 psi) annealed	ASTM D-648	78.3°C	173°F
Flammability: Vertical Burn, 60-second Vertical Burn, 12-second	FAR 25.853 (a)(i) FAR 25.853 (a)(ii)	PASS PASS	
Flammability: OSU Heat Release	FAR 25.853 (d) Part IV	Total: <65 kw-min/m <sup>2</sup> Total: <65 kw/m <sup>2</sup>	
Flammability: NBS Smoke Density	FAR 25.853(d) Part V	D max <200	
Forming Temperature		163 - 200°C	325 - 390°F
<sup>1</sup> Values based upon 3.18mm (0.125") sheet unless otherwise specified. Not intended for specification purposes.			

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  
techservice@sekisui-spi.com

[sekisui-spi.com](http://sekisui-spi.com)

Distributed by:



Toll Free: 1.800.277.7898  
[www.piedmontplastics.com](http://www.piedmontplastics.com)

Because we cannot anticipate or control the many different conditions under which this information and our products may be used, we do not guarantee the applicability of the accuracy of this information or the suitability of our products in any given situation. Users should conduct their own tests to determine the suitability of each product for their particular purposes. Data in the physical property table represents typical values and are to serve only as a guide for engineering design. Results are obtained from specimens under ideal laboratory conditions. Right to change physical properties as a result of technical progress is reserved. THE PRODUCTS DISCUSSED ARE SOLD WITHOUT WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, EITHER EXPRESSED OR IMPLIED, EXCEPT AS PROVIDED IN OUR STANDARD TERMS AND CONDITIONS OF SALE. Buyer assumes all responsibility for loss or damage arising from the handling and use of our products, whether done in accordance with directions or not. In no event shall the supplier or the manufacturer be liable for incidental or consequential damages. Also, statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent. Consult local code and regulatory agencies for specific requirements regarding code compliance, transporting, processing, recycling and disposal of our product. Product not intended for use as a heat resistant surface. Texture, product grade and other conditions may cause variations in appearance.

This information supersedes all previously published data.