

KYDEX® 6565(d)

Decorative low heat release aviation sheet

Introduction

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

General Information

KYDEX® 6565(d) is a proprietary, high performance, decorative thermoplastic sheet that meets all fire retardancy requirements set forth in Federal Aviation Regulations 25.853 paragraphs (a) and (d) including low heat release (65 / 65) in the OSU rate of heat release test. Its excellent properties make it the ideal material to form two-and-three-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 a wide range of thicknesses, enabling you to satisfy both the functional and aesthetic requirements of any aircraft interior.
- Very resistant to a wide range of concentrate chemicals, and is therefore easy to clean with standard household cleaning agents excluding abrasive and concentrated products
- Meets the stringent requirements of the FAR 25.853(a) and(d) in all thicknesses and colours.
- Forms to deep draws with low forces when heated to the upper end of the proper forming temperature range
- Crisp detail is achieved and rejects are minimized
- 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

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Physical Properties

Property	Test Method	Typical Value ¹	
Specific Gravity	ASTM D-792	1.52	
Tensile Strength	ASTM D-638	43 MPa	6,200 psi
Flexural Strength	ASTM D-790	81.2 MPa	11,780 psi
Modulus of Elasticity	ASTM D-790	3,833 MPa	556,000 psi
Rockwell Hardness (R Scale)	ASTM D-785	111	
Heat Deflection Temperature (HDT) @ 1.8 MPa (264 psi) annealed	ASTM D-648	75.9°C	168.6°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 ² Total: <65 kw/m ²	
Flammability: NBS Smoke Density	FAR 25.853(d) Part V	D max <200	
Forming Temperature		163 - 200°C	325 - 390°F

¹ Values based upon 3.18mm (0.125") sheet unless otherwise specified.

² All thicknesses 0.71mm (0.028") and above

Not intended for specification purposes.

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