

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

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

Customer Service

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Technical Service

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Curbell Plastics is a proud supplier of SEKISUI SPI materials

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Physical Properties

Property	Test Method	Typical Value ¹	
PHYSICAL			
Specific Gravity	ASTM D-792	1.48	
Rockwell Hardness, R-Scale	ASTM D-785	98	
MECHANICAL			
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
THERMAL			
Heat Deflection Temperature (HDT) @ 1.8 MPa (264 psi) annealed	ASTM D-648	78.3°C	173°F
Coefficient of Thermal Expansion	ASTM E-831	56.9 µm/m/°C	31.6 µin/in/°F
FLAMABILITY²			
Vertical Burn, 60-second	FAR 25.853(a)(i)	Pass	
Vertical Burn, 12-second	FAR 25.853(a)(ii)	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. Not intended for specification purposes.			

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This information supersedes all previously published data.