

KYDEX® 5555

Low heat release aviation sheet

Introduction

KYDEX® 5555 is specifically formulated to meet the safety needs of the aviation industry.

General Information

KYDEX® 5555 is a proprietary, high performance acrylic/PVC thermoplastic sheet that 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. KYDEX® 5555 exceeds the heat release to a level of 55/55. Its excellent properties make it the ideal material to form two-and-three-dimensional aircraft components.

Suggested Applications

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

Features

- Available in over 200 developed colours, various surface textures, and eight thicknesses ranging from 0.71mm and up.
- Very resistant to a wide range of concentrate chemicals, and is therefore easy to clean with aggressive cleaners such as Soft Scrub®, Fantastic®, and citrus-based cleaners such as Citri Kleen®. Ammoniated cleaners should be avoided since they can leave a residue.
- Meets the stringent requirements of the FAR 25.853 paragraph (d) (replaces para.c), in all thicknesses and colours.



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Environmental and Safety Considerations

Physical Properties

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.

Property	Test Method	Typical Value ¹	
Specific Gravity	ASTM D-792	1.52	
Tensile Strength	ASTM D-638	43 MPa	6,180 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) @ 264 psi (1.8 MPa) 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: <55 kw/m ² Total: <55 kw/m ²	
Flammability: NBS Smoke Density	FAR 25.853(d) Part V	D max <150	
Forming Temperature		170-200°C	338-392°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.			

This information is based upon standard laboratory tests and is provided for comparative purposes to substantiate antimicrobial activity for non-public health applications. Microban technology is not designed to protect users from disease causing microorganisms. Microban protection inhibits the growth of microorganisms that cause stains, odors, and product degradation. Antimicrobial action limited to product surface.



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This information supersedes all previously published data.