

KYDEX® 6565HI-ION

High impact, low heat release aviation sheet with advanced antimicrobial protection

INTRODUCTION

KYDEX® 6565HI-ION is a proprietary, high performance thermoplastic sheet with integral colour specifically engineered to improve aircraft passenger safety. Its built-in antimicrobial protection continuously fights the growth of stain and odor causing bacteria on its surface.

GENERAL INFORMATION

KYDEX® 6565HI-ION was designed to provide material deformation when used in components subjected to the HIC Test (Head Injury Criterion) for increased passenger safety. It meets flammability and smoke development requirements outlined in Federal Aviation Regulations FAR 25.853 paragraphs (a) and (d). Its KYDEX ION Technology™ is integral to the sheet.

SUGGESTED APPLICATIONS

- Seat parts
- Bulkhead laminates
- Life vest shrouds
- Monitor shrouds
- Armrests
- Moulding strips
- Tray tables
- Kick panels

FEATURES

- Antimicrobial protection inhibits the growth of stain and odor causing bacteria on the sheet surface
- Antimicrobial protection is integrated into the sheet
- Antimicrobial protection keeps the surface cleaner between cleanings
- Improved impact properties over traditional thermoplastics for HIC compliance seating requirements
- Reduces cost of compliance by decreasing the total number of expensive and time consuming 16g tests
- Increases design freedom to create more complex seat geometries
- Decreases weight by eliminating the need for heavy reinforcements or thick gauges
- Meets the stringent requirements of FAR 25.853 paragraphs (a) and (d) in all thicknesses and colours
- Excellent formability and fabrication characteristics
- Processes similar to KYDEX® 6565
- Allows for tight tolerance control
- Available in a wide range of integral colours

ENVIRONMENTAL & SAFETY CONSIDERATIONS

SEKISUI KYDEX, LLC 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.



Contact SEKISUI KYDEX appLab™ team for more details about KYDEX ION Technology™, resources, and Safety Data Sheets at 800.682.8758 or visit our website: www.kydex.com.

Customer Collaboration

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*KYDEX® Thermoplastics incorporate an advanced EPA-registered antimicrobial for the protection and preservation of our polymeric and plastic materials. KYDEX® Thermoplastics are treated only to protect the polymeric and plastic materials and do not confer protection from bacteria to users of our products. Always clean the product thoroughly after use. To learn more about KYDEX ION Technology™ or to have a technical conversation, contact our appLab™ team at applab@kydex.com or 800.682.8758.

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PROPERTY	TEST METHOD	TYPICAL VALUE ¹	
PHYSICAL			
Specific Gravity	ASTM D792	1.46	
Water Absorption, 24hr	ASTM D570	0.08%	
MECHANICAL			
Tensile Strength	ASTM D638	41.6 MPa	6,040 psi
Tensile Modulus	ASTM D638	2,832 MPa	410,700 psi
Flexural Strength	ASTM D790	59.3 MPa	8,600 psi
Flexural Modulus	ASTM D790	2,227 MPa	323,050 psi
Gardner Drop Dart Impact, GE	ASTM D5420	39.5 J	350 in-lbf
THERMAL			
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa), unannealed	ASTM D648	67.2°C	153.0°F
FLAMABILITY²			
Vertical Burn, 60-second	FAR 25.853(a)(i)	PASS	
Vertical Burn, 12-second	FAR 25.853(a)(ii)	PASS	
OSU Heat Release	FAR 25.853(d) Part IV	PASS	
NBS Smoke Density	FAR 25.853(d) Part V	PASS	
¹ Values based upon 3.20mm (0.125") sheet unless otherwise specified. Based on in-house testing, values may change with third party testing. ² All thicknesses and colours Not intended for specification purposes.			



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