

## KYDEX® FST

Fully compliant aviation sheet

### INTRODUCTION

**KYDEX® FST is a proprietary, high performance thermoplastic sheet formulated to meet all Boeing and Airbus toxicity requirements for aircraft interior components.**

### GENERAL INFORMATION

KYDEX® FST meets all flame, smoke, and heat release requirements set forth in Federal Aviation Regulations (FAR) 25.853 paragraphs (a) and (d) as well as toxicity requirements for Airbus (ABD003) and Boeing (BSS7239). 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
- Moulding strips
- Tray tables
- Kick panels

### FEATURES

- Meets the stringent requirements of FAR 25.853 (a) and (d) in all thicknesses and colours
- Meets toxicity smoke requirements of Airbus (ABD0031) and Boeing (BSS7239)
- Excellent fabrication and formability characteristics
- 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.

Please contact our appLab™ department at 800.682.8758 for resources and Safety Data Sheets or visit our website: [www.kydex.com](http://www.kydex.com).



#### Customer Collaboration

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Property	Test Method	Typical Value <sup>1</sup>	
<b>PHYSICAL</b>			
Specific Gravity	ASTM D792	1.34	
Water Absorption, 24hr	ASTM D570	0.15%	
Rockwell Hardness, R-Scale	ASTM D785	125	
<b>MECHANICAL</b>			
Tensile Strength	ASTM D638	71.7 MPa	10,400 psi
Tensile Modulus	ASTM D638	2,392 MPa	347,000 psi
Poisson's Ratio	ASTM D638	0.466	
Flexural Strength	ASTM D790	114.5 MPa	16,600 psi
Flexural Modulus	ASTM D790	2,496 MPa	362,000 psi
Compressive Strength, yield	ASTM D695	87.6 MPa	12,700 psi
Compressive Modulus	ASTM D695	2,813 MPa	408,000 psi
Shear Strength	ASTM D732	77.9 MPa	11,300 psi
Bearing Strength, 4% deflection	ASTM D953	26.9 MPa	3,900 psi
Bearing Strength, max.	ASTM D953	307.5 MPa	44,600 psi
Gardner Drop Dart Impact, GE	ASTM D5420	71.2 J	>630 in-lbr
<b>THERMAL</b>			
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa), annealed	ASTM D648	120.5°C	249°F
Coefficient of Thermal Expansion	ASTM E831	57.8 µm/m/°C	32.1 µin/in/°F
<b>Electrical</b>			
Dielectric Strength, oil	ASTM D149	14.8 kV/mm	375 V/mil
<b>FLAMABILITY<sup>2</sup></b>			
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	≤ 65/65	
NBS Smoke Density	FAR 25.853(d) Part V	≤ 200	
Airbus Smoke Toxicity	ABD0031	Pass	
Boeing Smoke Toxicity	BSS7239	Pass	
<sup>1</sup> Values based upon 3.20mm (0.125") sheet unless otherwise specified. <sup>2</sup> All thicknesses and colours Not intended for specification purposes.			



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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.

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