

KYDEX® FST03

Fully compliant, pearlescent aviation sheet

INTRODUCTION

KYDEX® FST03 is a proprietary, high performance thermoplastic sheet formulated to meet all Boeing and Airbus toxicity requirements for aircraft interior components. Its integral pearlescence adds a new dimension to aviation interior design.

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 thermoforming characteristics make it an ideal material for three-dimensional components where pearlescent design effects are desirable.

SUGGESTED APPLICATIONS

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

FEATURES

- Integral pearlescent effect
- 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.



Customer Collaboration

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Property	Test Method	Typical Value ¹	
PHYSICAL			
Specific Gravity	ASTM D792	1.32	
Water Absorption, 24hr	ASTM D570	0.15%	
Rockwell Hardness, R-Scale	ASTM D785	125	
MECHANICAL			
Tensile Strength	ASTM D638	77.2 MPa	11,200 psi
Tensile Modulus	ASTM D638	2,620 MPa	380,000 psi
Poisson's Ratio	ASTM D638	0.401	
Flexural Strength	ASTM D790	108.2 MPa	15,700 psi
Flexural Modulus	ASTM D790	2,654 MPa	385,000 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	28.3 MPa	4,100 psi
Bearing Strength, max.	ASTM D953	317.2 MPa	46,000 psi
THERMAL			
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa), annealed	ASTM D648	125.0°C	257°F
Coefficient of Thermal Expansion	ASTM E831	57.4 µm/m/°C	31.9 µin/in/°F
Electrical			
Dielectric Strength, oil	ASTM D149	15.7 kV/mm	400 V/mil
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	≤ 65/65	
NBS Smoke Density	FAR 25.853(d) Part V	≤ 200	
Airbus Smoke Toxicity	ABD0031	Pass	
Boeing Smoke Toxicity	BSS7239	Pass	

¹ Values based upon 3.20mm (0.125") sheet unless otherwise specified.
² All thicknesses and colours
 Not intended for specification purposes.



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This information supersedes all previously published data.