

# KYDEX® FST-03

Acrylic (PMMA) + PVC

SEKISUI Polymer Innovations, LLC

## Message:

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

KYDEX® FST03 meets the flammability, smoke development, and heat release requirements set forth in Federal Aviation Regulations (FAR) 25.853 paragraphs (a) and (d) as well as the toxicity requirements for Airbus (ABD0031) and Boeing (BSS7239). Its excellent thermoforming characteristics make it an ideal material for three-dimensional components where pearlescent design effects are desirable.

General Information			
Features	Low toxicity		
	Antibacterial		
	Antimicrobial		
Uses	Airplane trim		
Agency Ratings	FAR 25.853 (a)		
	FAR 25.853 (d)		
Appearance	Pearl color		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm <sup>3</sup>	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (3.18 mm)	2390	MPa	ASTM D638
Tensile Strength (3.18 mm)	74.5	MPa	ASTM D638
Flexural Modulus (3.18 mm)	2450	MPa	ASTM D790
Flexural Strength (3.18 mm)	101	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, 3.18 mm)	125	°C	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Toxic gas emission <sup>1</sup>	Pass		
Flammability			
NBS Smoke Density <sup>2</sup>			FAR 25.853(d)
OSU Heat Release, Peak <sup>3</sup>		kW/m <sup>2</sup>	FAR 25.853(d)
OSU Heat Release, Total <sup>4</sup>		kW · min/m <sup>2</sup>	FAR 25.853(d)
Vertical Burn, 12 Second	Pass		FAR 25.853(a)
Vertical Burn, 60 Second	Pass		FAR 25.853(a)
Additional Information			
Pre-drying of KYDEX® FST03 is required prior to thermoforming in order to remove moisture from the sheet			
NOTE			

1.	ABD0031, BSS 7239
2.	Part V
3.	Part IV
4.	Part IV

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#### Recommended distributors for this material

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