

## KYDEX® FST CTL

Fully compliant, translucent aviation sheet

### INTRODUCTION

**KYDEX® FST CTL is a translucent thermoplastic sheet specifically formulated to meet all Boeing and Airbus toxicity requirements for aircraft interior components.**

### GENERAL INFORMATION

KYDEX® FST CTL 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 for two and three-dimensional aircraft components where transparent design elements are desired.

### SUGGESTED APPLICATIONS

- Monuments
- Trim parts
- Accent strips
- Privacy walls
- Counter wraps
- Stairwell wraps

### FEATURES

- Increases design freedom for backlit panels and accents
- 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

### 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	74.5 MPa	10,800 psi
Tensile Modulus	ASTM D638	2,392 MPa	347,000 psi
Poisson's Ratio	ASTM D638	0.466	
Flexural Strength	ASTM D790	101.4 MPa	14,700 psi
Flexural Modulus	ASTM D790	2,448 MPa	355,000 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	126°C	259°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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