

KYDEX® FST CLR

Fully compliant, transparent aviation sheet

INTRODUCTION

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

GENERAL INFORMATION

KYDEX® FST CLR 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 (ABD0031) and Boeing (BSS7239). Its excellent fabrication characteristics make it the ideal material to form two and three dimensional aircraft components.

SUGGESTED APPLICATIONS

- Privacy screens
- Class dividers
- Decorative accents
- Backlit 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 that 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.



Customer Collaboration

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Property	Test Method	Typical Value ¹	
PHYSICAL			
Specific Gravity	ASTM D792	1.31	
Light Transmission, 2mm	ASTM D1003	80%	
Water Absorption, 24 hr	ASTM D570	0.11%	
Rockwell Hardness, R-scale	ISO 2039	125	
MECHANICAL			
Tensile Strength, yield	ASTM D638	77.2 MPa	11,200 psi
Tensile Strain, break	ASTM D638	94%	
Tensile Modulus	ASTM D638	2,358 MPa	342,000 psi
Poisson's Ratio	ASTM D638	0.439	
Flexural Strength	ASTM D790	103 MPa	15,000 psi
Flexural Modulus	ASTM D790	2,510 MPa	364,000 psi
Compressive Strength, yield	ASTM D695	88.3 MPa	12,800 psi
Compressive Modulus	ASTM D695	2,530 MPa	367,000 psi
Shear Strength	ASTM D732	80.0 MPa	11,600 psi
Bearing Strength, 4% deflection	ASTM D953	25.6 MPa	3,710 psi
Bearing Strength, max	ASTM D953	325 MPa	47,100 psi
Izod Impact, notched	ASTM D256	128 J/m	2.40 ft-lb _f /in
Gardner Drop Dart Impact, GE geometry	ASTM D5420	>72.3 J	>640 in-lb _f
Instrumented Impact, total energy	ASTM D3763	76.3 J	56.3 ft-lb _f
THERMAL			
Heat Deflection Temperature (HDT) @ 1.8 MPa (264 psi) unannealed	ASTM D648	124°C	257°F
Coefficient of Thermal Expansion	ASTM E831	57.5 µm/m/°C	31.9 µin/in/°F
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	16.1 kV/mm	410 V/mil
FLAMMABILITY²			
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	
Airbus Smoke Toxicity	ABD0031	Pass	
Boeing Smoke Toxicity	BSS7239	Pass	
¹ Values derived from resin data used to produce sheet product. All properties are measured from injection molded samples. ² All thicknesses and colours Not intended for specification purposes.			



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