

## KYDEX® 7200ST

Smoke and toxicity compliant aviation sheet

### INTRODUCTION

KYDEX® 7200ST is a high performance thermoplastic sheet designed for use in aviation interior applications where smoke and ABD0031 or BSS7239 toxicity compliance is required.

### GENERAL INFORMATION

KYDEX® 7200ST meets the flammability and smoke development requirements set forth in Federal Aviation Regulations (FAR) 25.853 paragraphs (a) and (d) Part V as well as the toxicity requirements for Airbus (ABD0031) and Boeing (BSS7239). Its wide processing window and ease of thermoforming makes it ideal for complex parts.

### SUGGESTED APPLICATIONS

- Armrests
- Tray tables
- Kick panels
- Trim parts

### FEATURES

- Meets flammability and smoke development requirements listed in FAR 25.853(a) and (d) Part V
- Compliant to ABD0031 and BSS7239 toxicity specifications
- Excellent formability and fabrication 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 Technical Service department at 800.682.8758 for resources or visit our website: <http://www.kydex.com>. For Material Safety Data Sheets, please call 800.325.3133.



#### Customer Collaboration

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PROPERTY	TEST METHOD	TYPICAL VALUE <sup>1</sup>	
<b>PHYSICAL</b>			
Specific Gravity	ASTM D792	1.25	
Water Absorption, 24hr	ASTM D570	0.16%	
Rockwell Hardness, R-scale	ASTM D785	112	
<b>MECHANICAL</b>			
Tensile Strength	ASTM D638	53.5 MPa	7,760 psi
Tensile Modulus	ASTM D638	2,868 MPa	416,000 psi
Poisson's Ratio	ASTM D638	0.37	
Flexural Strength	ASTM D790	87.6 MPa	12,700 psi
Flexural Modulus	ASTM D790	2,758 MPa	400,000 psi
Compressive Strength, yield	ASTM D695	73.1 MPa	10,600 psi
Compressive Modulus	ASTM D695	2,718 MPa	394,000 psi
Shear Strength	ASTM D732	45.5 MPa	6,600 psi
Bearing Strength, 4% deflection	ASTM D953	27.6 MPa	4,000 psi
Bearing Strength, max.	ASTM D953	246 MPa	35,700 psi
Gardner Drop Dart Impact, GE	ASTM D5420	46.9 J	415 in-lb <sub>f</sub>
<b>THERMAL</b>			
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa) annealed	ASTM D648	100°C	212°F
Coefficient of Thermal Expansion	ASTM E831	51.4 µm/m/°C	28.6 µin/in/°F
<b>ELECTRICAL</b>			
Dielectric Strength, oil	ASTM D149	22.4 kV/mm	570 V/mil
<b>FLAMMABILITY<sup>2</sup></b>			
Vertical Burn, 60-second	FAR 25.853(a)(i)	Pass	
Vertical Burn, 12-second	FAR 25.853(a)(ii)	Pass	
NBS Smoke Density	FAR 25.853(d) Part V	D <sub>max</sub> <200	
Airbus Toxic Gas Generation	ABD0031	Pass	
Boeing Toxic Gas Generation	BSS7239	Pass	
<sup>1</sup> Values based upon 3.18mm (0.125") sheet unless otherwise specified. <sup>2</sup> All thicknesses  Not intended for specification purposes			



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