

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
- Available in P3 – Velour Matte in thicknesses from 1.19mm to 4.75mm (0.047" to 0.187")

Environmental and Safety Considerations

SEKISUI SPI 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.sekisui-spi.com>. For Material Safety Data Sheets, please call 800.325.3133.

SEKISUI SPI

ISO 9001 and 14001 Certified

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Physical Properties

Property	Test Method	Typical Value ¹	
PHYSICAL			
Specific Gravity	ASTM D-792	1.25	
Water Absorption, 24hr	ASTM D-570	0.16%	
Rockwell Hardness, R-Scale	ASTM D-785	112	
MECHANICAL			
Tensile Strength	ASTM D-638	53.5 MPa	7,760 psi
Tensile Modulus	ASTM D-638	2,868 MPa	416,000 psi
Flexural Strength	ASTM D-790	87.6 MPa	12,700 psi
Flexural Modulus	ASTM D-790	2,758 MPa	400,000 psi
Compressive Strength, yield	ASTM D-695	73.1 MPa	10,600 psi
Compressive Modulus	ASTM D-695	2,718 MPa	394,000 psi
Shear Strength	ASTM D-732	45.5 MPa	6,600 psi
Bearing Strength, 4% deflection	ASTM D-953	27.6 MPa	4,000 psi
Bearing Strength, max.	ASTM D-953	246 MPa	35,700 psi
Gardner Drop Dart Impact, GE	ASTM D-5420	46.9 J	415 in-lb _i
THERMAL			
Heat Deflection Temperature (HDT) @ 264psi (1.8 MPa) unannealed/annealed	ASTM D-648	100°C	212°F
Coefficient of Thermal Expansion	ASTM E-831	51.4 µm/m/°C	28.6µin/in/°F
ELECTRICAL			
Dielectric Strength, oil	ASTM D-149	23.8 kV/mm	605 V/mil
FLAMABILITY²			
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 _{max} <200	
Airbus Toxic Gas Generation	ABD-0031	PASS	
Boeing Toxic Gas Generation	BSS 7239	PASS	
¹ Values based upon 0.125" (3.17mm) sheet unless otherwise specified ² All Thicknesses Not intended for specification purposes.			

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