

KYDEX® 2200LT

SMP800C compliant sheet for mass transit applications

Introduction

KYDEX® 2200LT is a high performance thermoplastic sheet designed for use in mass transit interior applications where SMP800C or BSS7239 compliance is required.

General Information

KYDEX® 2200LT is a cost effective alternative to FRP that offers the additional benefit of weight savings. It meets the Federal Transit Administration (FTA) and the Federal Rail Administration (FRA) requirements for smoke emission and flammability as tested under ASTM E-662 and ASTM E-162. Additionally, KYDEX® 2200LT meets the toxicity criteria defined by SMP800C and BSS7239.

Suggested Applications

- Seatbacks
- Bulkhead Components
- Armrests
- Wall and Ceiling Panels
- Window Shrouds

Features

- Meets flamespread and smoke development requirements listed in 49 CFR 238
- Compliant to SMP800C and BSS7239 toxicity specifications
- Excellent formability and fabrication characteristics
- Allows for tight tolerance control
- Excellent resistance to graffiti, chemicals, and staining

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

Customer Service

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Physical Properties

Property	Test Method	Typical Value ¹	
Specific Gravity	ASTM D-792	1.30	
Tensile Strength	ASTM D-638	52.7 MPa	7,650 psi
Tensile Modulus	ASTM D-638	3,895 MPa	565,000 psi
Flexural Strength	ASTM D-790	77.9 MPa	11,300 psi
Flexural Modulus	ASTM D-790	3,110 MPa	451,000 psi
Notched Izod Impact	ASTM D-256	140 J/m	2.61 ft-lb _f /in
Gardner Drop Dart Impact	ASTM D-5420	40.9 J	362 in-lb _f
Gardner Drop Dart Impact, -20°F (-29°C)	ASTM D-5420	14.2 J	126 in-lb _f
Heat Deflection Temperature (HDT) @264psi (1.8 MPa) unannealed/annealed	ASTM D-648	89.0°C	192.2°F
Coefficient of Thermal Expansion	ASTM E-831	53.8 $\mu\text{m}/\text{m}/^\circ\text{C}$	29.9 $\mu\text{in}/\text{in}/^\circ\text{F}$
Rockwell Hardness, R-Scale	ASTM D-785	108	
Flammability: Flame Spread Index	ASTM E-162	$I_S < 35$ No Burning Drip	
Flammability: Smoke Density	ASTM E-662	$D_S(1.5) < 100$ $D_S(4.0) < 200$	
Bombardier Toxic Gas Generation	SMP 800-C	Pass	
Boeing Toxic Gas Generation	BSS 7239	Pass	

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