

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

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 & SAFETY CONSIDERATIONS

SEKISUI KYDEX 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	1.30	
Density	ASTM D792	1.30 g/cm ³	0.047 lb/in ³
Water Absorption, 24 hr.	ASTM D570	0.17%	
Rockwell Hardness, R-scale	ASTM D785	108	
MECHANICAL			
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
Compressive Strength, yield	ASTM D-695	71.7 MPa	10,400 psi
Compressive Modulus	ASTM D-695	3,964 MPa	575,000 psi
Shear Strength	ASTM D-732	42 MPa	6,090 psi
Bearing Strength, 4% deflection	ASTM D-953	41 MPa	5,940 psi
Bearing Strength, max.	ASTM D-953	232.4 MPa	33,700 psi
Notched Izod Impact	ASTM D-256	140 J/m	2.61 ft-lb/in
Garnder Drop Dart Impact, GE	ASTM D-5420	40.9 J	362 in-lb _t
Garnder Drop Dart Impact, GE @ -20°F (-29°C)	ASTM D-5420	14.2 J	126 in-lb _t
THERMAL			
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa) Annealed	ASTM D648	89.0°C	192.2°F
Coefficient of Thermal Expansion	ASTM E831	53.8 µm/m/°C	29.9 µin/in/°F
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	23.9 kV/mm	588 V/mil
FLAMMABILITY²			
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	
Caloric Content	ASTM E-1354	5,084 BTU/lb	
¹ Values based upon 3.18mm (0.125") sheet unless otherwise specified. ² All thicknesses and colours Not intended for specification purposes.			



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