KYDEX® 2210LT

EN45545, R1 & R6 Hazard Level 2 compliant sheet for rail interior applications

INTRODUCTION

KYDEX® 2210LT is a high performance thermoplastic sheet designed for use in rail interior applications where EN45545 R1 & R6 Hazard Level 2 compliance is required.

GENERAL INFORMATION

KYDEX® 2210LT is an alternative to FRP, metal and melamine that offers significant weight savings.

SUGGESTED APPLICATIONS

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

FEATURES

- Meets the stringent requirements of EN45545, R1 & R6 Hazard Level 2 for EN45545
- Integral colour eliminates the need for painting or gel coat.
- Excellent resistance to graffiti, chemicals, and staining
- Excellent formability and fabrication characteristics
- Avaliable in P3 - Velour Matte and PC - Level Haircell textures

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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KYDEX THERMOPLASTICS

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PROPERTY	TEST METHOD	TYPICAL VALUE[1]	
PHYSICAL			
Specific Gravity	ASTM D792	1.35	
Density	ASTM D792	1.35 g/cm^3	0.0488 lb/in^3
Water Absorption, 24hr	ASTM D570	0.12%	
Rockwell Hardness, R-scale	ASTM D785	116	
MECHANICAL			
Tensile Strength	ASTM D638	64.1 MPa	9,300 psi
Tensile Modulus	ASTM D638	5,078 MPa	736,500 psi
Poisson's Ratio	ASTM D638	0.499	
Flexural Strength	ASTM D790	100.0 MPa	14,500 psi
Flexural Modulus	ASTM D790	4,422 MPa	641,300 psi
Compressive Strength, yield	ASTM D695	194.1 MPa	28,150 psi
Compressive Modulus	ASTM D695	2,775 MPa	402,500 psi
Shear Strength	ASTM D732	49.3 MPa	7,150 psi
Bearing Strength, 4% deflection	ASTM D953	16.9 MPa	2,445 psi
Notched Izod Impact	ASTM D256	48.6 J/m	0.91 ft-lb$_f$ /in
Garnder Drop Dart Impact, GE	ASTM D5420	32.9 J	291 in-lb$_f$
THERMAL			
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa) annealed	ASTM D648	98.9°C	210°F
Coefficient of Thermal Expansion	ASTM E831	96.6 µm/m/°C (MD) 87.3 µm/m/°C (TD)	53.7 µin/in/°F (MD) 48.5 µin/in/°F (TD)
ELECTRICAL			
Dielectric Strength	ASTM D149	16.3 kV/mm	415 V/mil
FLAMMABILITY[2]			
EN 45545-2: R1 Interior Surfaces	ISO 5658-2 (50kW) CFE	HL2	
	ISO 5659-2 (50kW) Ds(4), VOF$_4$, CIT$_G$		
	ISO 56560-1 (50kW) MARHE		
EN 45545-2: R6 Passenger Seat Shells	ISO 5659-2 (50kW) Ds(4), VOF$_4$, CIT$_G$	HL2	
	ISO 56560-1 (50kW) MARHE		

1 Values based upon 3.18mm (0.125") sheet unless otherwise specified.
2 All thicknesses and colours
Rough draft, final values may change
Not intended for specification purposes.

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