

KYDEX® 2200LT

Acrylic (PMMA) + PVC
SEKISUI Polymer Innovations, LLC

Message:

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

General Information			
Features	Good Chemical Resistance		
	Low Smoke Emission		
	Stain Resistant		
Uses	Ceiling Panels		
	Seats		
Agency Ratings	ASTM E 162		
	ASTM E 662		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	108		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (3.18 mm)	3900	MPa	ASTM D638
Tensile Strength (Yield, 3.18 mm)	52.7	MPa	ASTM D638
Flexural Modulus (3.18 mm)	3110	MPa	ASTM D790
Flexural Strength (3.18 mm)	77.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	140	J/m	ASTM D256

Gardner Impact			ASTM D5420
--	40.9	J	
-29°C	14.2	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.18 mm	89.0	°C	
1.8 MPa, Annealed, 3.18 mm	89.0	°C	
CLTE - Flow	5.4E-5	cm/cm/°C	ASTM E831
Flammability	Nominal Value		Test Method
Flame Spread Index - No Burning Drip	< 35.0		ASTM E162
Smoke Density			ASTM E662
1.5 min	< 100		
4.0 min	< 200		
Toxic Gas Emissions			
Boeing (BSS 7239)	Pass		
Bombardier (SMP 800-C)	Pass		

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