

KYDEX® XD

Acrylic (PMMA) + PVC
SEKISUI Polymer Innovations, LLC

Message:

KYDEX® XD is a thermoplastic 3D laminate giving designers the ability to incorporate compound corners, logos, and wire management holes while eliminating unsightly seams and the need for edgebanding typically associated with HPL/TFM surfaces. Its integral color and superior impact resistance minimizes costly maintenance associated with other laminates.

Extreme durability (XD), superior impact, membrane pressable thermoplastic 3D laminate with integral color from 0.76mm-1.02mm (0.030"-0.040") thickness. While providing good definition it surpasses vinyl overlays, high pressure laminates and melamine in resistance to surface and edge impact.

General Information			
Features	Durable		
	Flame Retardant		
	Good Abrasion Resistance		
	Good Flexibility		
	Good Processability		
	Good Toughness		
	High Impact Resistance		
	Low Moisture Absorption		
	Scratch Resistant		
Uses	Counter Top Flatstocks		
	Decorative Displays		
	Fascias		
	Laminates		
	Reinforced Panels		
	Table Products		
Agency Ratings	ASTM E 84 Class 1/A		
Appearance	Colors Available		
Forms	Sheet		
Processing Method	Laminating		
	Press Molding		
	Thermoforming		
	Vacuum Forming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 3.18 mm)	94		ASTM D785
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus (3.18 mm)	2420	MPa	ASTM D638
Tensile Strength (3.18 mm)	42.0	MPa	ASTM D638
Tensile Elongation (Break, 3.18 mm)	130	%	ASTM D638
Flexural Modulus (3.18 mm)	2480	MPa	ASTM D790
Flexural Strength (3.18 mm)	66.0	MPa	ASTM D790
Taber Abrasion Resistance (1000 Cycles, 500 g, CS-10F Wheel)	0.00950	mg	ASTM D1044
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (1.02 mm)	800	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	66.2	°C	
1.8 MPa, Annealed, 3.18 mm	75.6	°C	
Additional Information	Nominal Value		Test Method
Ball Impact Resistance (1.02 mm)	> 3000		Internal Method
Cleanability	16.0		Internal Method
Dart Impact (1.02 mm)	> 1000		Internal Method

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