

KYDEX® 100

Acrylic (PMMA) + PVC
SEKISUI Polymer Innovations, LLC

Message:

Super tough, durable KYDEX® 100, a proprietary alloy sheet, brings new dimensions to thermoformers in: formability, rigidity, breakage resistance, chemical resistance and fire retardancy.

General Information			
UL YellowCard		E115252-219439	
Features	Durable		
	Flame Retardant		
	Good Chemical Resistance		
	Good Processability		
	High Impact Resistance		
	High Rigidity		
	Machinable		
	Ultra High Toughness		
Uses	Aircraft Interiors		
	Automotive Applications		
	Housings		
	Medical Devices		
Agency Ratings	BS 476 Part 7, Class I		
	BS 476 Part 7, Class IY		
	EU 95/28/EC		
	FAA FAR 25.853a		
UL File Number		E115252	
Appearance	Colors Available		
	Finishes Available		
Forms		Sheet	
Processing Method	Thermoforming		
	Vacuum Forming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm³	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 Strength (Yield, 3.18 mm)	42.0	MPa	ASTM D638
Tensile Elongation (Break, 3.18 mm)	160	%	ASTM D638
Flexural Modulus (3.18 mm)	2310	MPa	ASTM D790
Flexural Strength (Yield, 3.18 mm)	63.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	950	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, 3.18 mm)	78.3	°C	ASTM D648
CLTE - Flow (3.18 mm)	7.6E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
3.18 mm	V-0		
0.710 mm	5V		
Flammability			
900.0 µm	S4, ST2, SR2		DIN 5510-2
2.00 mm	Class 1Y		BS 476 Part 7
3.20 mm	Class 1		BS 476 Part 7
6.50 mm	S4, ST2, SR1		DIN 5510-2

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