

KYDEX® 6185

Acrylic (PMMA) + PVC
SEKISUI Polymer Innovations, LLC

Message:

KYDEX® 6185 is a proprietary thermoplastic sheet with improved heat distortion temperature (HDT) for higher in-service temperatures while providing excellent extensibility, good impact resistance and excellent solvent resistance.

General Information			
Features	Good Impact Resistance		
	Good Processability		
	High Heat Resistance		
	Machinable		
	Solvent Resistant		
Uses	Aircraft Interiors		
	Housings		
Agency Ratings	FAA FAR 25.853a		
Appearance	Colors Available		
	Finishes Available		
Forms	Sheet		
Processing Method	Thermoforming		
	Vacuum Forming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33 to 1.37	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40 to 0.60	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 3.18 mm)	104		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 3.18 mm)	44.0	MPa	ASTM D638
Flexural Modulus (3.18 mm)	2240	MPa	ASTM D790
Flexural Strength (Yield, 3.18 mm)	66.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	270	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.18 mm	85.0	°C	
1.8 MPa, Annealed, 3.18 mm	90.6	°C	

Maximum Service Temperature	85 to 90	°C
Thermoforming Molding Temperature	163 to 200	°C

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Recommended distributors for this material

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