

# KYDEX® 6565

Acrylic (PMMA) + PVC

SEKISUI Polymer Innovations, LLC

## Message:

KYDEX® 6565 is a proprietary, high performance thermoplastic sheet specifically formulated to meet the safety needs of the aviation industry. KYDEX® 6565 meets all fire retardancy requirements set forth in Federal Aviation Regulations 25.853 paragraphs (a) and (d) (old (c)) including low heat release (65 / 65) in the OSU rate of heat release test. Its excellent properties make it the ideal material to form 2 and 3-dimensional aircraft components.

General Information			
Features	Cleanable		
	Flame Retardant		
	Good Processability		
	Machinable		
	Non-Smooth Surface Finish		
Uses	Aircraft Interiors		
Agency Ratings	ASTM E 162		
	FAA FAR 25.853a		
	FAA FAR 25.853d		
	OSU 65/65		
Appearance	Colors Available		
Forms	Sheet		
Processing Method	Thermoforming		
	Vacuum Forming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 3.18 mm)	98		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 3.18 mm)	45.0	MPa	ASTM D638
Flexural Modulus (3.18 mm)	2900	MPa	ASTM D790
Flexural Strength (Yield, 3.18 mm)	70.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Dynatup			
Cum. Energy : 23°C	131	J	
Max Energy : 23°C	7.24	J	
Flammability			
Radiant Panel	Pass		ASTM E162
Rate of Heat Release	<65/65		FAR 25.853(d)

Smoke Generation	Pass		FAR 25.853(d)
Thermoforming Molding Temperature	163 to 200	°C	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, 3.18 mm)	78.3	°C	ASTM D648

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### Recommended distributors for this material

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