

# KYDEX® 6503

Acrylic (PMMA) + PVC

SEKISUI Polymer Innovations, LLC

## Message:

KYDEX ® 6503 is a proprietary, high performance thermoplastic sheet specifically formulated to meet the safety needs of the aviation industry. Integrally pearlescent, this sheet is perfect for use with LED lighting or on it's own.

KYDEX ® 6503 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			
Additive	Flame Retardant		
Features	Cleanable		
	Flame Retardant		
	Good Processability		
	Machinable		
Uses	Aircraft Interiors		
Agency Ratings	ASTM E 162		
	FAA FAR 25.853a		
	FAA FAR 25.853d		
	OSU 65/65		
Appearance	Colors Available		
	Pearlescent		
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 (3.18 mm)	70.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Dynatup			
Cum. Energy : 23°C, 3.18 mm	131	J	
Max. Energy : 23°C, 3.18 mm	7.24	J	

Flammability			
--	Pass		FAR 25.853(a)
Radiant Panel	Pass		ASTM E162
Rate of Heat Release	< 65/65		FAR 25.853(d)
Smoke Generation	Pass		FAR 25.853(d)
Forming Temperature (3.18 mm)	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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

