

# KYDEX® 510

Acrylic (PMMA) + PVC

SEKISUI Polymer Innovations, LLC

## Message:

KYDEX® 510 is a weatherable sheet with superior performance for thermoforming and a decorative sheet for lamination.

It is available in many distinctive colors and textures. An acrylic cap protects the surface, providing excellent weatherability for outdoor use. This product is now available with decorative film (black/white granite). While excellent in thermoforming, KYDEX® 510 is also being used as damage resistant surface material.

General Information	
Features	Flame Retardant
	Good Flexibility
	Good Processability
	Good Weather Resistance
	High Impact Resistance
	Low Moisture Absorption
	Self Extinguishing
Uses	Decorative Displays
	Housings
	Medical/Healthcare Applications
	Outdoor Applications
Agency Ratings	BS 476 Part 7, Class I
Appearance	Colors Available
Forms	Sheet
Processing Method	Laminating
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm <sup>3</sup>	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 (3.18 mm)	42.0	MPa	ASTM D638
Flexural Modulus (3.18 mm)	2480	MPa	ASTM D790
Flexural Strength (3.18 mm)	66.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	800	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Annealed, 3.18 mm)	75.6	°C	ASTM D648
CLTE - Flow	6.9E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value		Test Method
Dielectric Constant			
100 Hz	2.76		
800 Hz	2.53		
1.90 GHz	2.51		
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
3.18 mm	V-0		
> 1.00 mm	5V		
Additional Information	Nominal Value	Unit	
Forming Temperature	163 to 200	°C	

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#### Recommended distributors for this material

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