

# KYDEX® 430

Acrylonitrile Butadiene Styrene + PVC

SEKISUI Polymer Innovations, LLC

## Message:

KYDEX ® 430 is a proprietary ABS/PVC thermoplastic sheet that offers superior thermoformability, rigidity, breakage resistance, chemical resistance and fire retardancy.

KYDEX ® 430 is available in a wide range of standard and custom colors, textures, and sheet sizes. It is Underwriters Laboratories, Inc ® recognized for UL std 94 V-0, 5V and pass the ball pressure test per IEC 60695-10-2.

General Information			
UL YellowCard	E115252-101018458		
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Chemical Resistance		
	High Rigidity		
	Low Moisture Absorption		
	Machinable		
Uses	Electrical Housing		
	Housings		
	Medical/Healthcare Applications		
Appearance	Colors Available		
Forms	Sheet		
Processing Method	Thermoforming		
	Vacuum Forming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage	0.50 to 0.70	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 3.18 mm)	50.9	MPa	ASTM D638
Flexural Modulus (3.18 mm)	2390	MPa	ASTM D790
Flexural Strength (3.18 mm)	74.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (22°C, 3.18 mm)	180	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.18 mm	73.3	°C	
1.8 MPa, Annealed, 3.18 mm <sup>1</sup>	82.7	°C	
Ball Pressure Test (3.18 mm)	Pass		IEC 60695-10-2

Flammability	Nominal Value	Test Method
	V-0	
Flame Rating <sup>2</sup> (1.00 mm)	5V	UL 94
Additional Information	Nominal Value	Unit
Thermoforming Molding Temperature (> 1.00 mm)	163 to 204	°C
NOTE		
1.	Annealed at 65.5°C (150°F) for 8 hours and cooled slowly	
2.	Underwriters Laboratories, Inc File #E115252	

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#### Recommended distributors for this material

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