

KYDEX® 430

Proprietary ABS/PVC blend developed specifically for Medical device housing applications

Introduction

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

General Information

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.

Applications

- Medical Equipment Housings
- Electrical Equipment Housings
- Miscellaneous Applications

Flammability

- UL94 V-0, 5-V @ 1mm

Features

- Good for deep or hard to form parts
- More rigid, parts will deform less when loaded - or can be down-gauged for weight-savings
- Meets highest standard for chemical resistance for thermoplastic materials
- Passes UL Std 94 V-0 and 5-V in all thicknesses and colors
- Uniform wall thickness and crisp detail
- Easy machining and fabricating using conventional methods and equipment
- Low moisture absorption - no drying needed prior to thermoforming
- Passes ball pressure test as per IEC 60695-10-2

Environmental and Safety Considerations

SEKISUI SPI is committed to ensuring that its products can be manufactured, transported, stored, used, disposed and recycled with an appropriate regard for safety, health and environmental protection. We support the safe handling of our products. Please contact our Technical Service department at 800.682.8758 for resources or visit our website: <http://www.sekisui-spi.com>. For Material Safety Data Sheets, please call 800.325.3133.



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Physical Properties

Property	Test Method	Typical Value ¹	
Specific Gravity	ASTM D-792	1.29	
Tensile Strength	ASTM D-638	50.9 MPa	7,380 psi
Notched Izod Impact Resistance, @ 22°C (72°F)	ASTM D-256	181 J/m	3.4 ft-lbs/in
Flexural Strength	ASTM D-790	74.11 MPa	10,750 psi
Flexural Modulus	ASTM D-790	2,385 MPa	346,000 psi
Heat Deflection Temperature (HDT) ² @ 264 psi (1.8 MPa) unannealed/annealed	ASTM D-648	73.3/82.7°C	164/181°F
Ball Pressure Test	IEC 60695-10-2	Pass	
Flammability: Underwriters Laboratories, Inc. [®] Component Recognition	UL Standard 94 ³	VO, 5V ⁴	
Mold Shrinkage		0.5 - 0.7%	
Thermoforming Range ⁴		163 - 204°C	325 - 400°F

¹ Values based upon 3.18mm (0.125") sheet unless otherwise specified
² Annealed at 65.5°C (150°F) for 8 hours and cooled slowly
³ Underwriters Laboratories, Inc.[®], File E115252
⁴ All thicknesses 1.0mm (0.039") and above
 Not intended for specification purposes.



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