

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.

SUGGESTED APPLICATIONS

- Medical Equipment Housings
- Electrical Equipment Housings
- Miscellaneous Applications

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 & SAFETY CONSIDERATIONS

SEKISUI KYDEX, LLC 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.kydex.com>. For Material Safety Data Sheets, please call 800.325.3133.



Customer Collaboration

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PROPERTY	TEST METHOD	TYPICAL VALUE ¹	
PHYSICAL			
Specific Gravity	ASTM D792	1.29	
Rockwell Hardness, R-scale	ASTM D785	109	
Moisture Absorption, 24 hrs. @ 50°C	ASTM D570	0.10%	
MECHANICAL			
Tensile Strength	ASTM D638	50.9 MPa	7,380 psi
Tensile Modulus	ASTM D638	2,710 MPa	393,000 psi
Poisson's Ratio	ASTM D638	0.412	
Flexural Strength	ASTM D790	74.1 MPa	10,750 psi
Flexural Modulus	ASTM D790	2,385 MPa	346,000 psi
Izod Impact, notched	ASTM D256	181 J/m	3.4 ft-lb _f /in
Compressive Strength, yield	ASTM D695	79.8 MPa	11,570 psi
Compressive Modulus	ASTM D695	2,990 MPa	433,660 psi
Shear Strength	ASTM D732	52 MPa	7,540 psi
Bearing Strength, 4% deflection	ASTM D953	24.9 MPa	3,610 psi
Bearing Strength, Max	ASTM D953	227 MPa	32,920 psi
Gardner Drop Dart Impact, GE	ASTM D5420	65 J	575 in-lb _f
Ball Pressure Test	IEC 60695-10-2	Pass	
THERMAL			
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa) annealed	ASTM D648	82.7°C	181°F
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa) unannealed	ASTM D648	73.3°C	164°F
FLAMMABILITY			
Underwriters Laboratories, Inc.® Component Recognition	UL Standard 94 ²	V-0, 5V ³	
¹ Values based upon 3.18mm (0.125") sheet unless otherwise specified. ² Underwriters Laboratories, Inc.®, File Number E115252 ³ All thicknesses 1.0mm (0.039") and above Not intended for specification purposes.			



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