

KYDEX® 110

Metallic fire-rated sheet

INTRODUCTION

Super tough, durable KYDEX® 110, a proprietary alloy sheet, brings new dimensions to thermoformers in: formability, rigidity, breakage resistance, chemical resistance and fire retardancy.

GENERAL INFORMATION

This high performance thermoplastic sheet is available in an assorted number of metallic colours. It is Underwriters Laboratories, Inc® recognized for UL Std 94 V-0, 5V.

SUGGESTED APPLICATIONS

- Aircraft Interiors
- Kiosk Housings
- Medical Housings
- Miscellaneous Applications
- Exhibits and Displays
- Store Fixtures
- Office Furniture

FEATURES

- For deep or hard to form parts where good finished detail is required
- More rigid than most thermoplastics so parts will deform less when loaded
- Meets highest standard for chemical resistance for thermoplastic materials
- Recognized by Underwriter's Laboratories, Inc® for Std 94 V-0, 5V in all thicknesses and colors
- Excellent forming properties, uniform wall thicknesses
- Easy machining and fabricating using conventional methods and equipment
- Passes FFA Vertical Burn Testing according to FAR 25.853 (a) (i)&(ii)

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	1.31	
Rockwell Hardness, R-scale	ASTM D785	94	
MECHANICAL			
Tensile Strength	ASTM D638	45 MPa	6,500 psi
Flexural Strength	ASTM D790	76 MPa	11,000 psi
Flexural Modulus	ASTM D790	2,450 MPa	356,000 psi
Izod Impact, notched	ASTM D256	128 J/m	2.4 ft-lb/in
THERMAL			
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa) annealed	ASTM D648	73.9°C	165°F
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	22.8 kV/mm	580 V/mil
FLAMMABILITY			
Underwriters Laboratories, Inc.® Component Recognition	UL Standard 94 ²	V-0, 5V ³	
Vertical Burn, 60-second	FAR 25.853(a)(i)	Pass	
Vertical Burn, 12-second	FAR 25.853(a)(ii)	Pass	
Surface Burning Characteristics: ⁴ Flame Spread/Smoke	ASTM E84	Class 1/A	
¹ Values based upon 3.18mm (0.125") sheet unless otherwise specified. ² Underwriters Laboratories, Inc.®, File Number E115252 ³ All thicknesses 0.71mm (0.028") and above ⁴ All thicknesses 1.50mm (0.060") and below Not intended for specification purposes.			



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