

KYDEX® 1100UV

Fire-rated sheet for exterior applications

INTRODUCTION

KYDEX® 1100UV is a weatherable, proprietary alloy sheet that brings new dimensions to equipment manufacturers in design freedom, formability, durability, break resistance, and fire retardancy.

GENERAL INFORMATION

KYDEX® 1100UV is available in a wide range of custom colours, textures, and sheet sizes. It eliminates the need for painting through integral colour that will not chip nor wear away during the life-cycle of the part. It is Underwriters Laboratories, Inc® recognized to UL Std 94 V-0, 5V and UL 746C (f1) for UV exposure and water immersion.

SUGGESTED APPLICATIONS

- EV Charging Stations
- Antenna/5G Covers
- Kiosk Housings
- Equipment Housings

FEATURES

- Recognized by Underwriters Laboratories, Inc® for Standard 94 V-0, 5V in all thicknesses and colours
- UL 746C (f1) rated for UV exposure and water immersion
- Excellent weatherability, colour retention characteristics
- Good for deep or hard to form parts
- Uniform wall thickness and crisp detail
- Easy machining and fabricating using conventional methods and equipment
- Integral colour that will not chip nor wear away

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 appLab™ department at 800.682.8758 for resources and Safety Data Sheets or visit our website: <http://www.kydex.com>.



Customer Collaboration

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Property	Test Method	Typical Value ¹	
PHYSICAL			
Specific Gravity	ASTM D792	1.35	
Rockwell Hardness, R-scale	ASTM D785	94	
Moisture Absorption, 24h	ASTM D570	0.09%	
MECHANICAL			
Tensile Strength	ASTM D638	42 MPa	6,100 psi
Tensile Modulus	ASTM D638	2,400 MPa	353,000 psi
Flexural Strength	ASTM D790	63 MPa	9,100 psi
Flexural Modulus	ASTM D790	2,310 MPa	335,000 psi
Izod Impact, notched	ASTM D256	961 J/m	18 ft-lb _f /in
Compressive Strength, yield	ASTM D695	52 MPa	7,500 psi
Compressive Modulus	ASTM D695	2,600 MPa	379,000 psi
Shear Strength	ASTM D732	46 MPa	6,790 psi
Bearing Strength, 4% deflection	ASTM D953	30 MPa	4,400 psi
Bearing Strength, max	ASTM D953	206 MPa	29,900 psi
Gardner Drop Dart Impact, GE	ASTM D5420	70 J	624 in-lb _f
THERMAL			
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa) annealed	ASTM D648	78.3 °C	173 °F
Coefficient of Linear Thermal Expansion	ASTM E831	7.56 x 10 ⁻⁵ °C	4.2 x 10 ⁻⁵ °F
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	16.5 kV/mm	420 V/mil
FLAMMABILITY			
Underwriters Laboratories, Inc. [®] Component Recognition	UL Standard 94 ^{2,3} UL Standard 746C ⁴	V-0, 5V, f1	
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 UV exposure and water immersion			
* Not intended for specification purposes			



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This information supersedes all previously published data.