

KYDEX® 510

Weatherable and decorative sheet

INTRODUCTION

KYDEX® 510 is a weatherable sheet with superior performance for thermoforming and a decorative sheet for lamination.

GENERAL INFORMATION

KYDEX® 510 is available in many distinctive colors and textures. An acrylic cap protects the surface, providing excellent weatherability for outdoor use. This product is now available with decorative film (black/white granite). While excellent in thermoforming, KYDEX® 510 is also being used as damage resistant surface material.

SUGGESTED APPLICATIONS

- Kiosk Housings
- Equipment Housings
- Medical Products
- Miscellaneous Applications

FEATURES

- Offers same properties of KYDEX® sheet, but in a weatherable formula
- Highly impact resistant as measured by the Notched Izod Impact Resistance test
- Fire retardant (self-extinguishing) with UL Std 94 V-0 and 5V ratings
- Low moisture absorption, resistance to chipping and cracking, great fabrication and machining properties and flexibility
- Excellent forming properties, uniform wall thickness and crisp detail
- Can be drilled, punched and cut using standard woodworking or metal working tools
- Exhibits a Dielectric Constant of 2.76 @ 100 Hz, 2.53 @ 800 MHz, 2.51 @ 1.9 GHz and 2.80 @ 40 GHz

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	1.35	
Rockwell Hardness, R-scale	ASTM D785	94	
MECHANICAL			
Tensile Strength	ASTM D638	42 MPa	6,100 psi
Flexural Strength	ASTM D790	66 MPa	9,600 psi
Flexural Modulus	ASTM D790	2,480 MPa	360,000 psi
Izod Impact, notched	ASTM D256	801 J/m	15 ft-lb _f /in
Coefficient of Linear Thermal Expansion	ASTM D696	6.9x10 ⁻⁵ / °C	3.83 x 10 ⁻⁵ / °F
THERMAL			
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa) annealed	ASTM D648	75.6°C	168°F
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	19.7 kV/mm	500 V/mil
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 0.71mm (0.028") and above Not intended for specification purposes.			



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