

## KYDEX® 331 and KYDEX® 331d

Co-Extruded High Impact Fire Rated Sheet with Weatherable Acrylic Film Cap

### Introduction

KYDEX® 331 and KYDEX® 331d is a proprietary co-extruded high impact fire rated thermoplastic sheet with a weatherable cap that offers superior performance for thermoforming.

KYDEX® 331d offers the same benefits as KYDEX® 331 but with a decorative cap (black/white, granite).

### General Information

KYDEX® 331 and KYDEX® 331d are available in colors and thicknesses from 1.52mm - 8.89mm (0.060" - 0.350").

An acrylic cap protects the surface, providing excellent weatherability for outdoor use. While excellent in thermoforming, KYDEX® 331 and KYDEX® 331d can also be used as an impact 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

### Environmental and Safety Considerations

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.

#### KYDEX, LLC

ISO 9001 and 14001 Certified

#### Customer Service

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## KYDEX® 331 and KYDEX® 331d Co-Extruded High Impact Fire Rated Sheet with Weatherable Acrylic Film Cap

### Physical Properties

Property	Test Method	Typical Value <sup>1</sup>	
Specific Gravity	ASTM D-792	1.35	
Tensile Strength	ASTM D-638	42 MPa	6,100 psi
Flexural Strength	ASTM D-790	66 MPa	9,600 psi
Modulus of Elasticity	ASTM D-790	2,482 MPa	360,000 psi
Notched Izod Impact Resistance @73°F (23°C)	ASTM D-256	640 J/m	12 ft-lbs./in
Heat Deflection Temperature (HDT) <sup>2</sup> @1.8 MPa (264psi) unannealed/annealed	ASTM D-648	66.7°C 75.5°C	152°F 168°F
Flammability: Underwriters Laboratories, Inc. Component Recognition	UL Standard 94 <sup>3</sup>	V-0, 5V	

<sup>1</sup> Values based upon 3.2mm (0.125") sheet unless otherwise specified.

<sup>2</sup> Annealed at 65.5°C (150°F) for 8 hours and cooled slowly

<sup>3</sup> Underwriters Laboratories, Inc File #E115252

As a bi-layer sheet, users should conduct their own tests to determine the suitability of this product.  
Not intended for specification purposes.

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This information supersedes all previously published data.