

## KYDEX<sup>®</sup> 311 Co-Extruded High Impact Fire Rated Sheet

### Introduction

KYDEX<sup>®</sup> 311 is a proprietary co-extruded high impact fire rated thermoplastic sheet that is cost competitive with fire retardant ABS (FR-ABS) formulations but with superior properties.

### General Information

KYDEX<sup>®</sup> 311 is less hygroscopic than FR-ABS. KYDEX<sup>®</sup> 311 typically does not require pre-drying and offers excellent resistance to a broad range of corrosive chemicals and cleaning solutions. It is available in a wide range of aesthetic choices and is UL<sup>®</sup> recognized Std 94 V-0/5V.

### Suggested Applications

- Exhibits and Displays
- Medical Products
- Miscellaneous Applications
- Store Fixture Components
- Machine Housings

### Features

- color-matched cap with a black-colored substrate for dark colors and an off-white-colored substrate for light colors
- offered in thicknesses from 1.5mm (0.060") to 8.9mm (0.350")
- toughness and durability
- easy to form with good part definition
- chemical resistant
- fire retardant
- excellent fabrication qualities

### Flammability Tests

UL Standard 94 Recognized: V-0, 5V

### 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.



ISO 9001:2000 | ISO 14001:2004 Certified

#### Customer Service

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**KYDEX<sup>®</sup> 311**  
Co-Extruded High Impact Fire Rated Sheet

**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>4</sup> @1.8 MPa (264psi) unannealed/annealed	ASTM D-648	66.7°C 75.5°C	152°F 168°F
Flammability: Underwriter's Laboratories, Inc. Component Recognition	UL Standard 94 <sup>2</sup>	V-0, 5V <sup>3</sup>	

<sup>1</sup> Values based upon 3.2mm (0.125") sheet unless otherwise specified.  
<sup>2</sup> Underwriter's Laboratories, Inc File #E115252  
<sup>3</sup> Thicknesses  $\geq$  1.5mm (0.060")  
<sup>4</sup> Annealed at 65.5°C (150°F) for 8 hours and cooled slowly

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.