

KYDEX® 311 MB

Co-Extruded High Impact Fire Rated Sheet with Microban® Antimicrobial Product Protection

Introduction

KYDEX® 311 MB 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 including Microban® antimicrobial protection¹.

General Information

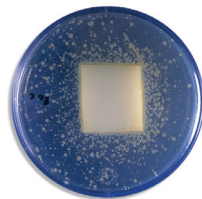
KYDEX® 311 MB is less hygroscopic than FR-ABS. KYDEX® 311 MB typically does not require pre-drying and offers excellent resistance to a broad range of corrosive chemicals and cleaning solutions. It is available in a wide range of aesthetic choices and is UL® recognized Std 94 V-0, 5V.

Suggested Applications

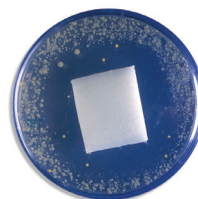
- Exhibits and Displays
- Medical Products
- Miscellaneous Applications
- Store Fixture Components
- Machine Housings

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
- Microban® antimicrobial technology inhibits the growth of bacteria that can cause stains, odors and product deterioration.
- Microban® technology is built-in to the sheet so it won't wash or wear away and lasts for the lifetime of the product/sheet.
- Microban® technology keeps the surface cleaner between cleanings.



Without Microban® antimicrobial product protection¹



With Microban® antimicrobial product protection¹

This information is based upon standard laboratory tests and is provided for comparative purposes to substantiate antimicrobial activity for non-public health applications. Microban product protection inhibits the growth of microorganisms that can cause stains, odors and product degradation.

KYDEX, LLC

ISO 9001 and 14001 Certified

Customer Service

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Technical Service

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www.kydex.com



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Flammability Tests

Environmental and Safety Considerations

Physical Properties

UL Standard 94 Recognized: V-0, 5V

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.

Property	Test Method	Typical Value ¹	
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) ² @1.8 MPa (264psi) unannealed/annealed	ASTM D-648	66.7°C 75.5°C	152°F 168°F
Flammability: ³ Underwriters Laboratories, Inc. Component Recognition	UL Standard 94	V-0, 5V	

¹ Values based upon 3.2mm (0.125") sheet unless otherwise specified.

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

³ Underwriters Laboratories, Inc File #E115252

⁴ Microban® antimicrobial protection is built-in to the top layer of extruded sheet only.

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

This information is based upon standard laboratory tests and is provided for comparative purposes to substantiate antimicrobial activity for non-public health applications. Microban technology is not designed to protect users from disease causing microorganisms. Microban protection inhibits the growth of microorganisms that cause stains, odors, and product degradation. Antimicrobial action limited to product surface.

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This information supersedes all previously published data.