

KYDEX® T MB

High impact fire-rated sheet with Microban® Antimicrobial Product Protection

Introduction

KYDEX® T MB is a proprietary thermoplastic sheet that is cost competitive with fire retardant ABS/PVC (FR-ABS) formulations but with significantly higher impact strength and extensibility. Microban® protection is built-in to continuously fight the growth of microbes.

General Information

Since KYDEX® T MB is less hygroscopic, unlike FR-ABS, it typically does not require pre-drying, offers superior impact, more uniform forming with less wall thinning and offers significantly greater resistance to a broad range of corrosive chemicals and cleaning solutions. It is available in a wide range of aesthetic choices and is Underwriter's Laboratories, Inc® recognized Std 94 V-0, 5V.

Suggested Applications

- * Aircraft Interiors
- * Mass Transit Vehicle Interior Components
- * Equipment Housings
- * Medical Products
- * Kiosk Housings

Flammability Tests

Meets requirements for:

- * UL 94 V, 5V
- * FAR 25.853a

Features

- * substitute for FR-ABS sheet with competitive pricing but superior cost/performance
- * higher breakage resistance measured by the Notched Izod test than competitive thermoplastics
- * available in eight thicknesses from 0.71mm (0.028") and up, in eight textures, a variety of colors, custom blank sizes and low minimums
- * among the most rigid of thermoforming materials with a modulus of elasticity of 2,482 MPa (360,000 psi)
- * easy to form with excellent part definition and deep-draw characteristics
- * recognized by Underwriter's Laboratories, Inc® for Std 94 V-0, 5V in all thicknesses
- * form times similar to FR-ABS making it an easy transition from competitive products.
- * endorsed by the Royal Institute of Public Health for conformance to the standard of Hygienic Merit



- * 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.

Kleerdex Company, LLC

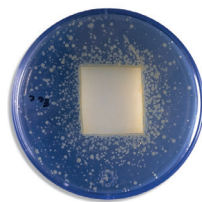
ISO 9001 and ISO 14001 Certified

Customer Service

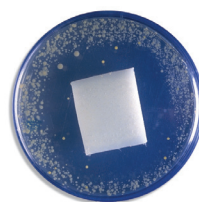
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Technical Service

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Without Microban® antimicrobial product protection*



With Microban® antimicrobial product protection*



KYDEX® T MB

High impact fire-rated sheet with Microban® Antimicrobial Product Protection

Environmental and Safety Considerations

Physical Properties

Kleerdex 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 |
| Elongation % | ASTM D-638 | 110 | |
| Flexural Strength | ASTM D-790 | 66 MPa | 9,600 psi |
| Modulus of Elasticity | ASTM D-790 | 2,480 MPa | 360,000 psi |
| Notched Izod Impact Resistance, @ 23°C (73°F) | ASTM D-256 | 801 J/m | 15 ft-lbs/in |
| Rockwell Hardness (R Scale) | ASTM D-785 | 94 | |
| Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa) annealed | ASTM D-648 | 75.6°C | 168°F |
| Flammability: Underwriter's Laboratories, Inc® Component Recognition | UL Standard 94 ² | V-0, 5V ³ | |
| Federal Aviation Administration | FAR 25.853 (a) | Pass ³ | |
| ¹ Values based upon 3.18mm (0.125") sheet unless otherwise specified. ² Underwriter's Laboratories, Inc®, File E115252 ³ All thicknesses 0.71mm (0.028") and above * The thicknesses are added. 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.

Because we cannot anticipate or control the many different conditions under which this information and our products may be used, we do not guarantee the applicability of the accuracy of this information or the suitability of our products in any given situation. Users should conduct their own tests to determine the suitability of each product for their particular purposes. Data in the physical property table represents typical values and are to serve only as a guide for engineering design. Results are obtained from specimens under ideal laboratory conditions. Right to change physical properties as a result of technical progress is reserved. THE PRODUCTS DISCUSSED ARE SOLD WITHOUT WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, EITHER EXPRESSED OR IMPLIED, EXCEPT AS PROVIDED IN OUR STANDARD TERMS AND CONDITIONS OF SALE. Buyer assumes all responsibility for loss or damage arising from the handling and use of our products, whether done in accordance with directions or not. In no event shall the supplier or the manufacturer be liable for incidental or consequential damages. Also, statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent. Consult local code and regulatory agencies for specific requirements regarding code compliance, transporting, processing, recycling and disposal of our products. Product not intended for use as a heat resistant surface. Texture, product grade and other conditions may cause variations in appearance.

This information supersedes all previously published data.

Kleerdex Company, LLC

ISO 9001 and ISO 14001 Certified

Customer Service

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Durability by Design®