

KYDEX® XD03

Integral pearlescent sheet for flat lamination and membrane pressed applications

Introduction

KYDEX® XD03 is a proprietary, high performance thermoplastic sheet specifically formulated to meet aesthetic effect for the design needs of the building and retail interiors industry. Integrally pearlescent, this sheet is perfect for use with LED lighting or on it's own.

General Information

KYDEX® XD03: (XD), superior impact, membrane pressable thermoplastic 3D laminate with integral pearlescent color. While providing good definition, it surpasses vinyl overlays, high pressure laminates and melamine in resistance to surface and edge impact. For flat lamination* and membrane pressing.

Suggested Applications

- Store fixtures
- Cabinetry
- Workstations
- Tabletops
- Wainscot
- Kiosks
- Door and drawer fascias
- Gondolas
- Transaction surfaces
- Flat laminated panels
- Checkout counters
- Exhibits and displays
- Pedestals and stands
- Logo and trademark panels

Features

- Highlighted in a collection of 32 developed colours, colour matching also available
- Available in P-K texture and thicknesses 0.76mm (0.030") to 1.02mm (0.040")
- Easy to clean with aggressive cleaners such as Soft Scrub®, Fantastic®, and citrus-based cleaners such as Citri Kleen® (avoid ammoniated cleaners)
- Crisp detail, minimal rejects
- Can be formed on all standard presses and cut on all standard die-cutting machines
- Secondary operations including machining, sawing, blanking, punching, etc. are easily performed

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

6685 Low St, Bloomsburg, PA 17815 USA
 Phone: 800.325.3133, +1.570.389.5810
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 Fax: 800.452.0155, +1.570.387.7786
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Technical Service

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 Outside the US: +1.570.387.6997 ext. 581

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Physical Properties

| Property | Test Method | Typical Value ¹ |
|--|-------------|----------------------------|
| Light Resistance | NEMA LD3.3 | Severe Effect |
| Cleanability/Stain Resistance | NEMA LD3.4 | No Effect |
| Boiling Water Resistance | NEMA LD3.5 | Severe Effect |
| High Temperature Resistance (Oil) | NEMA LD3.6 | Moderate Effect |
| Linear Glass Scratch Resistance | NEMA LD3.7 | <50g |
| Diamond Scratch Resistance | NEMA LD3.7 | 3 |
| Ball Impact Resistance | NEMA LD3.8 | >3000mm |
| Dart Impact Resistance | NEMA LD3.9 | >1075mm |
| Radiant Heat Resistance (Coil) | NEMA LD3.10 | 46 sec |
| Radiant Heat Resistance (Strip) | NEMA LD3.10 | 47 sec |
| Dimensional Change | NEMA LD3.11 | MD: 0.26% TD: 0.39% |
| Room Temperature Dimensional Stability | NEMA LD3.12 | MD: 0.07% TD: 0.03% |
| Wear Resistance | NEMA LD3.13 | 3700 cycles |
| Flammability ² : Surface Burning Characteristics of Building Materials | ASTM E84 | Class 1/A |

¹ Values based upon 0.76mm (0.030") sheet unless otherwise specified.
² Values based upon 1.02mm (0.040") sheet unless otherwise specified.
 Not intended for specification purposes.

*NOTE: Material appearance will change in proportion to the amount of heat applied during processing.

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European Physical Properties

| Property | Test Method | Typical Value ¹ |
|--|-------------|--|
| Resistance to Surface Wear | EN 438-2:10 | 1600 cycles |
| Resistance to Immersion in Boiling Water | EN 438-2:12 | △ Weight: 1.2% △ Thickness: 8.2% Grade 4 |
| Substrate Protection Against Water Vapour | EN 438-2:13 | Grade 1 |
| Resistance to Water Vapour | EN 438-2:14 | Grade 2 |
| Resistance to Dry Heat | EN 438-2:16 | Grade 5 |
| Dimensional Stability at Elevated Temperature | EN 438-2:17 | MD: -0.23% TD: 0.02% |
| Dimensional Stability at Ambient Temperature | EN 438-2:18 | MD: 0.00% TD: 0.00% |
| Resistance to Impact by Small Diameter Ball | EN 438-2:20 | >90N |
| Resistance to Impact by Large Diameter Ball | EN 438-2:21 | >3m |
| Resistance to Cracking Under Stress | EN 438-2:23 | Grade 5 |
| Resistance to Craziing | EN 438-2:24 | Grade 5 |
| Resistance to Scratching | EN 438-2:25 | Grade 5 |
| Resistance to Staining | EN 438-2:26 | Acetone: Grade 1 Hydrogen Peroxide: Grade 5 Sodium Hydroxide: Grade 5 Coffee: Grade 5 Shoe Polish: Grade 5 |
| Resistance to Cigarette Burns | EN 438-2:30 | Grade 1 |
| Flammability: Surface Spread of Flame | BS 476:7 | Class 1 (0.76mm + 1.02mm) |
| Flammability: Fire Propagation for Products | BS 476:6 | Class 0 (0.76mm) |
| Flammability: Epiradiateur Flammability (M-Classification Test) | NF P 92-501 | M1 (0.76mm + 1.02mm) |
| Flammability: Fire Behavior of Building Materials and Elements | DIN 4102 | B1 (0.76mm), B2 (1.02mm) |
| ¹ Values based upon 0.76mm (0.030") sheet unless otherwise specified. ² Values based upon 1.02mm (0.040") sheet unless otherwise specified. Not intended for specification purposes. | | |

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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 product. 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.