

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 its 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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Technical Service

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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)
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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.