

Seamless Performance with Parts Made from KYDEX® Sheet



For demanding medical applications, KYDEX® thermoplastic sheet is available in a growing range of high-performance grades designed to meet your tough requirements.

The physical, chemical, and aesthetic properties available with KYDEX® sheet improves the durability, cleanability, and appearance of medical products and offers a wide range of advantages:

- Fire-rated for worldwide regulatory compliance
- Resistant to chemicals, disinfectants, and cleaning solutions
- Extreme formability, hot tear strength, and uniformity of wall thickness
- Outstanding impact resistant, modulus of elasticity, tensile strength, hardness, and heat deflection temperature

KYDEX® sheet is also available with **Microban® antimicrobial product protection**. Because the Microban protection is built in, it **doesn't wash or wear off**, and helps to **keep products cleaner 24/7*** by continuously fighting the growth of odor and stain-causing bacteria, mold, and mildew. And KYDEX® sheet is the *only* thermoplastic sheet available with Microban protection for use in **medical device enclosures** – offering a *unique edge* in that market.

In addition to thermoforming, KYDEX® sheet is suitable for laminating, fabricating, machining, and membrane pressing – making it the ideal material for a broad variety of flat and three-dimensional medical components, such as:

- Medical equipment housings
- Hospital bed footboards and headboards
- Ceiling panels
- Mobile carts
- Orthotics and prosthetics
- Protective wall coverings
- Work surfaces
- Tables and trays
- Workstations

High-performance KYDEX® sheet is highly customizable, yet cost effective, making it the right choice for parts that meet a wide array of specifications:

- Thicknesses from 0.71mm to 12.70mm (0.028" to 0.500")
- An almost unlimited choice of colours, textures, and patterns
- Small runs and short lead times

To learn more, please visit www.kydex.com or contact a KYDEX representative at 800.325.3133.

*Microban protection does not protect user against disease causing microorganisms and is not a substitute for normal cleaning practices.

KYDEX
THERMOPLASTIC SHEET
Durability By Design®

Microban
antimicrobial product protection

KYDEX® Thermoplastic Sheet Grades for High-Performance Medical Applications

Below is a listing of KYDEX® sheet products for mass transit interior applications. For a list of more comprehensive information visit www.kydex.com or contact a KYDEX representative.

	Izod Impact Resistance at 22.8° C (73°F) [ASTM D-256]	Modulus of Elasticity [ASTM D-790]	Tensile Strength [ASTM D-638]	Rockwell Hardness (R scale) [ASTM D-785]	Heat Deflection Temp @ 1.82MPa (264 psi) (annealed) [ASTM D-648]	Thicknesses	UL Std 94 V-0 & 5V Fire Rating
KYDEX® 100 High impact UL Std 94 V-0, 5V fire-rated sheet. Integral solid colours.	961 J/m (18 ft-lbs/in)	2,310 MPa (335,000 psi)	42 MPa (6100 psi)	94	78.3° C (173° F)	0.70mm (0.028") to 12.70mm (0.500")	●
KYDEX® 110 UL Std 94 V-0 fire-rated sheet. Integral metallic colours.	128 J/m (2.4 ft-lbs/in)	2,450 MPa (356,000 psi)	45 MPa (6500 psi)	94	73.9° C (165° F)	0.70mm (0.028") to 9.60mm (0.375")	●
KYDEX® 130 Decorative granite-look sheet. UL Std 94 V-0, 5V in all thicknesses and UL classified Class I/A for non-wall-covering building product applications.	187 J/m (3.5 ft-lbs/in)	2,372 MPa (344,000 psi)	41 MPa (6000 psi)	101	76.7° C (170° F)	0.70mm (0.028") to 9.60mm (0.375")	●
KYDEX® HD High durability, high impact, membrane pressable 3D laminate. Fire retardant. Integral solid colours.	33.9 N-m* (300in-lb-ft*)	3,367 MPa (489,000 psi)	50 MPa (7200 psi)	114	75.1° C (167° F)	0.56mm (0.022") only	●
KYDEX® T Cost competitive with fire retardant ABS/PVC formulations, but exhibits significantly higher impact strength and extensibility. Integral solid colours.	801 J/m (15 ft-lbs/in)	2,480 MPa (360,000 psi)	42 MPa (6100 psi)	94	75.6° C (168° F)	0.70mm (0.028") to 12.70mm (0.500")	●
KYDEX® T MB High impact fire-rated sheet with UL 94 V, 5V rating. Microban® antimicrobial product protection. Integral solid colours.	427 J/m (8 ft-lbs/in)	2,068 MPa (335,000 psi)	42 MPa (6100 psi)	94	75.6° C (168° F)	0.70mm (0.028") to 6mm (0.375")	●
KYDEX® XD Extreme durability, superior impact 3D laminate. Fire retardant, resistant to a wide range of chemicals. Integral colours.	48.58 N-m 430 in-lbf Gardner Drop Dart (25.40mm [1.0"] MDF)	2,480 MPa (360,000 psi)	42 MPa (6100 psi)	94	75.6° C (168° F)	0.76mm (0.030") to 1.02mm (0.040")	●
KYDEX® XD MB Extreme durability, superior impact. Fire retardant sheet with Microban® antimicrobial product protection. Integral colours.	48.58 N-m 430 in-lbf Gardner Drop Dart (25.40mm [1.0"] MDF)	2,480 MPa (360,000 psi)	42 MPa (6100 psi)	94	75.6° C (168° F)	0.76mm (0.030") to 1.02mm (0.040")	●

* Impact Resistance - Gardner Drop Dart (25.40 mm [1.0"] MDF)

KYDEX

ISO 9001:2000 | ISO 14001:2004 Certified

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