

**KYDEX®**  
THERMOPLASTIC SHEET

# PRODUCT SELECTION GUIDE

***Durability by Design®***



**THERMOPLASTIC SHEET PRODUCTS  
IN SPECIALIZED GRADES FOR  
DEMANDING APPLICATIONS**







## Protect the long term performance and appearance of your products with KYDEX® thermoplastic sheet

### Description

KYDEX® sheet is an extremely durable thermoplastic alloy extruded to withstand levels of abuse from moderate to extreme. It is available in grades to optimize long-term performance, appearance, and cost effectiveness across demanding and diverse end-use applications.

- Over 3500 custom colors
- Thicknesses from 0.56mm to 12.70mm (0.022" to 0.500")
- 8 textures
- Low minimum order quantities

KYDEX sheet is available in a range of standard colors, granite patterns, realistic wood grains and metallics. Custom colors and a diversity of designs are also available to enhance virtually any commercial, retail or institutional styling theme.

Specialized grades satisfy requirements specific to thermoforming, membrane pressing, post forming, brake forming, laminating and miter folding—and fit a broad range of applications ranging from medical equipment housings and aircraft seat parts, to retail store fixtures and commercial furniture components.

### Impact Resistance

No other thermoplastic sheet stands up to impact, scratching, and gouging like KYDEX sheet. Depending on grade, it offers outstanding notched Izod Impact resistance. Due to its high degree of toughness and resilience, KYDEX sheet can also be stretched at room temperature to twice its original dimension without breaking.

### Dimensional Stability

Low water absorption, extreme formability, hot tear strength and the ability to maintain wall thickness give parts made with KYDEX sheet high dimensional stability.

### Weatherability

Certain monolithic grades of KYDEX sheet are formulated for weatherable applications, while other grades employ a weatherable cap sheet (either clear or reverse-printed) that is permanently fused to the KYDEX substrate.

### Flame Retardancy

Depending on grade, KYDEX sheet carries fire ratings of UL 94 V-0 and 5V, UL 746C, FAR 25.853 (a) and (d), BS 476 (Parts 6 and 7), MVSS 302, Class 1/A, and ASTM E-162.

### Chemical Resistance

Sulfuric acid to brake fluid to carbon tetrachloride, high performance grades of KYDEX thermoplastic alloys are more resistant to a wider range of concentrated chemicals than any other thermoplastic.

### Cleanability

Tough stains, scuffs, and graffiti can be removed from KYDEX surfaces using strong cleansers with no staining, fading, or surface damage.

### Design Flexibility

KYDEX sheet offers unprecedented design and manufacturing flexibility since numerous grades are available to provide properties and certified ratings required for specialized applications.

An unlimited variety of flat and three-dimensional effects can be achieved since KYDEX sheet can be thermoformed, membrane pressed, laminated, miter folded, post formed, brake formed and machined. This allows each part of multi-component products to be produced using the most efficient technique, yet match all other components in appearance, further expanding application possibilities.



## Applications

### Aircraft Interior Components

KYDEX® proprietary thermoplastic sheet is offered in a range of high performance, aircraft-specific grades that satisfy FAA fire retardancy requirements, and exhibit outstanding physical, mechanical, and thermal properties required for aircraft interior applications.

### Mass Transit Vehicle, RV and Marine Interior Components

KYDEX sheet is available in specialized grades that meet all performance criteria for flammability and smoke emission as tested under: ASTM E-662 and ASTM E-162 as described in both the "Recommended Fire Safety Practices for Rail Transit Materials Selection" issued by the Urban Mass Transportation Administration, and the Docket 90-A Federal Transit Administration's "Recommended Fire Safety Practices for Transit Bus and Van Materials Selection."

### Store Fixtures and Commercial Furniture

Flat laminating, membrane pressing and miter folding with KYDEX sheet in solid colors, granite patterns, realistic woodgrains and custom graphic patterns, can produce flat and seamless three-dimensional store fixture and commercial furniture components that look better, last longer and are easier to manufacture than components surfaced with high-pressure laminates or wood veneers, or finished using paint or powder coatings.

### Medical Products

From thermoformed equipment housings to membrane pressed or laminated medical building products to sanitary ceiling panels, specialized grades of KYDEX sheet offer the durability, cleanability, and versatility required to exceed the most demanding medical applications.

### Equipment Housings

Outstanding physical properties, fire ratings, formability, and a wide selection of specialized grades make KYDEX sheet a premier material for high performance equipment housings.

### Building Products

KYDEX sheet meets Class 1/A requirements for applications such as wallcovering, perforated acoustical partitions, and acoustical ceiling panels. KYDEX sheet properties make it ideal for use in environmentally-controlled commercial, institutional and industrial buildings, resisting high impact, scuffs, gouges, abrasion and harsh cleansers more effectively than paint, wallpaper or vinyl wallcovering.

### Kiosk Housings

Thermoforming, flat laminating, membrane pressing and miter folding with KYDEX sheet in solid colors, granite patterns, realistic woodgrains and custom graphic patterns, can produce flat and seamless three-dimensional kiosk components that withstand extreme abuse in high traffic environments, and keep looking new over a longer service life.

### Illuminated Signage Housings

Thermoforming of illuminated signage housings can eliminate the high cost of sheet metal fabrication and painting. KYDEX sheet for signage housings is offered in a bi-layer two-color (duplex) version, and as a single-color sheet. The exterior side of duplex sheet is available in any of several standard colors, while the interior side is reflective bright white, eliminating the labor costs and flaking associated with painted sheet metal housings.

### Exhibits and Displays

Flat and three-dimensional components surfaced with KYDEX sheet withstand the abuse of high traffic environments, resist harsh cleansers and chemicals and overcome the drawbacks of conventional surfacing methods. Available with Class 1/A and other fire ratings.

### Food Processing

KYDEX sheet can satisfy NSF requirements while improving the performance of equipment housings, covers and guards, as well as ceiling and wall panels in plants that process meat, poultry and other food/beverage products.

### Clean Room Walls and Ceilings

KYDEX sheet fire-rated ceiling panels are approved for use in Class 10 rated clean rooms as tested according to Federal Standard 209D. The panels also meet Class 1/A fire code requirements (ASTM E-84).

### Miscellaneous Applications

The diversity of mechanical and electrical properties, fire ratings, textures, thicknesses, colors and patterns encompassed by the 29 standard grades—and custom grades—of KYDEX sheet, make it suitable for an extraordinarily diverse range of demanding applications, from gun holsters and channel buoys to hospital beds and ice hockey targets.



## Laminating and Miter Folding

## Forming, Fabricating and Machining



KYDEX® sheet can be laminated to wood, metal, gypsum, rigid foam, and other substrates using commercially available adhesives, and by hot pressing or cold pressing production methods. The result is a protective surface that does not chip, crack, break, or snap like high pressure laminates, and is available in a range of thicknesses to meet anticipated levels of abuse. Depending on the grade, color is integral, eliminating dark edge lines that can be unsightly, especially in heavier gauges and against lighter colors.

Wood substrates laminated with KYDEX sheet can also be miter folded to produce seamless outside corners of cabinets, drop-front shelving or table legs—accomplished by routing a V-groove (miter) across the backside of the

wood without touching the KYDEX sheet. Both mitered wood edges are then sprayed with adhesive and hinged on the KYDEX sheet to close the groove, forming a seamless outside corner, improving appearance, durability, cleanliness, part alignment and structural integrity, while reducing labor cost.



EXHIBITGROUP/GILTSFUR

Typical applications include:

- Commercial furniture, both wood and steel
- Store fixtures and case goods
- Exhibits and displays
- Partitions, doors, and panels
- Virtually any laminated product or surface in high-traffic retail, institutional and commercial interiors



KYDEX sheet is easy to saw, die cut, shear, rout, drill, sand, file, mill, and otherwise machine using conventional power tools. It can also be post formed and brake formed (with or without wire heating), as well as heat welded to create seamless, sanitary corners.

Joining can be accomplished using screws, rivets, other common fasteners or commercially available adhesives—without the cracking, chipping, or snapping associated with many thermoplastic and thermoset sheet products.

The diversity of methods to effectively form, fabricate, machine, and join KYDEX sheet opens limitless application possibilities, both functional and decorative including:

- Braces, brackets and supports
- Perforated panels
- Equipment shrouds and guards
- Corner guards and crash rails
- Kick plates and push plates
- Freight container linings
- Formed and/or laminated products requiring simple or complex secondary operations



## Thermoforming



For fast set-up and production of plastic parts, especially large parts in quantities from 500 to several thousand, thermoforming is commonly selected over injection molding; tooling costs can be 90 percent lower and parts can be completed two- to three-times more quickly.

Vacuum forming and pressure forming both evacuate the sealed air space between the heated plastic and mold; pressure forming adds air pressure above the heated sheet to achieve a higher quality finish (sharp edges, undercuts, and other close tolerance details).

KYDEX sheet is well established as a premier thermoforming sheet offering numerous processing advantages such as extreme formability, hot tear strength, and the ability to maintain uniform wall thickness.

Typical applications include:

- Equipment housings, shrouds, enclosures
- Vents and grilles
- Interior components of aircraft, mass transit vehicles, trucks, and marine vessels
- Commercial and institutional furniture and seating components
- Hidden and exposed parts such as chutes, braces and equipment guards



## Membrane Pressing



Whereas thermoforming uses air pressure to draw heated plastic sheet into a mold, membrane pressing uses an inflated bladder or "membrane" to physically press heated plastic sheet onto a wood or composite substrate or "core," eliminating the need for molds.

Core surfaces can be flat or machined to create three-dimensional contours and seamless edges with compound curves since the flexible membrane presses the plastic into recesses and onto all sides, encapsulating all but the bottom core surface (which can be laminated and heat-welded at bottom edges for total encapsulation).

The outstanding formability of KYDEX sheet enables it to conform fully to the core, preserving sharp edges and surface detail of three-dimensional surfaces, while maintaining uniform wall thickness

on high spots, low spots, and sharp corners where other sheet products may "thin out."

Typical applications include:

- Raised panel cabinet doors
- Table tops and workstation surfaces
- Corporate logo panels
- Store fixture components
- Commercial and institutional furniture and seating
- Kiosk panels





Grade	Properties					Thicknesses																Textures								Colors / Patterns										
	Impact Resistance at 73° F D256J [ASTM D-256J] J/m (ft-lbs/in)	Modulus of Elasticity psi (x10³) [ASTM D-790] MPa	Tensile Strength psi (x10³) [ASTM D-638] MPa	Rockwell Hardness (R scale) [ASTM D-785] psi	Heat Deflection Temp @264 psi (annealed) °F [ASTM D-648] °C	0.56mm (0.022")	0.70mm (0.028")	1.00mm (0.040")	1.50mm (0.060")	2.00mm (0.080")	2.40mm (0.093")	3.20mm (0.125")	4.00mm (0.156")	4.80mm (0.187")	6.40mm s(0.250")	7.90mm (0.312")	8.30mm (0.325")	9.60mm (0.375")	10.80mm (0.425")	12.70mm (0.500")	P-E SMOOTH NAP	P-C LEVEL HAIRCELL	P-K CASHMERE	P-3 VELOUR MATTE	P-8 SUEDE	P-H SEVILLE	P-1 HAIRCELL	P-A SMOOTH	36 Standard Colors	Limited Colors	Fluorescents	Granite	Woodgrain Patterns	Metallic	Custom Designs	Custom Colors	Capped			
KYDEX® 100	961 J/m (18 ft-lbs/in)	2310 MPa 335,000 psi	42 MPa 6100 psi	94	78.3° C (173° F)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●		●				●		
KYDEX® 101	961 J/m (18 ft-lbs/in)	2310 MPa 335,000 psi	42 MPa 6100 psi	88	78.3° C (173° F)			●	●	●	●	●	●	●										●			●				●							●		
KYDEX® 107	212 J/m (4 ft-lbs/in)	2758 MPa 400,000 psi	48 MPa 6900 psi	108	78.3° C (173° F)		●	●	●	●	●	●	●	●	●	●	●				●	●	●	●	●	●	●	●	●		●				●					
KYDEX® 110	128 J/m (2.4 ft-lbs/in)	2450 MPa 356,000 psi	45 MPa 6500 psi	94	73.9° C (165° F)		●	●	●	●	●	●	●	●	●	●	●				●		●	●	●				●					●		●				
KYDEX® 115	160-267 J/m (3-5 ft-lbs/in)	2391 MPa 347,000 psi	40 MPa 5750 psi	107	81.1° C (178° F)					●										●										●						●				
KYDEX® 130	187 J/m (3.5 ft-lbs/in)	2372 MPa 344,000 psi	41 MPa 6000 psi	101	76.7° C (170° F)		●	●	●	●	●	●	●	●	●	●	●				●	●	●	●	●	●	●	●		●		●					●			
KYDEX® 150	961 J/m (18 ft-lbs/in)	2310 MPa 335,000 psi	42 MPa 6100 psi	94	78.3° C (173° F)		●	●	●	●	●										●	●	●	●	●	●	●		●		●						●			
KYDEX® 152 WG	801 J/m (15 ft-lbs/in)	2480 MPa 360,000 psi	42 MPa 6100 psi	*	75.6° C (168° F)			●	●	●	●	●	●	●										●									●		●		●		●	
KYDEX® 160	107-214 J/m (2-4 ft-lbs/in)	2551 MPa 370,000 psi	40 MPa 5800 psi	97	71.1° C (160° F)				●	●	●	●									●	●	●	●	●	●	●	●									●			
KYDEX® 510	801 J/m (15 ft-lbs/in)	2480 MPa 360,000 psi	42 MPa 6100 psi	94	75.6° C (168° F)			●	●	●	●	●	●	●	●	●	●				●	●	●	●	●		●		●								●	●		
KYDEX® 550	801 J/m (15 ft-lbs/in)	2344 MPa 340,000 psi	42 MPa 6100 psi	93	79.4° C (175° F)		●	●	●	●	●	●	●	●	●	●	●				●	●	●	●	●	●	●	●		●								●		
KYDEX® 1900	374-480 J/m (7-9 ft-lbs/in)	2517 MPa 365,000 psi	43 MPa 6200 psi	108	78.3° C (173° F)		●	●	●	●	●	●	●	●							●	●	●	●	●	●	●										●			
KYDEX® 5555	53 J/m (1 ft-lbs/in)	3833 MPa 556,000 psi	43 MPa 6200 psi	111	75.9° C (169° F)		●	●	●	●	●	●	●	●							●	●	●	●	●	●	●										●			
KYDEX® 6185	267 J/m (5 ft-lbs/in)	2241 MPa 325,000 psi	44 MPa 6400 psi	104	90.6° C (195° F)		●	●	●	●	●	●	●	●							●	●	●	●	●	●	●										●			
KYDEX® 6200	187 J/m (3.5 ft-lbs/in)	2413 MPa 350,000 psi	41 MPa 6000 psi	98	77.8° C (172° F)		●	●	●	●	●	●	●	●							●	●	●	●	●	●	●										●			
KYDEX® 6200 LTA	107 J/m (2 ft-lbs/in)	2710 MPa 393,000 psi	23 MPa 3390 psi	78	74.4° C (166° F)				●	●	●	●	●	●	max 5.59mm (0.220")							●		●			●											●		
KYDEX® 6200 LTR	107 J/m (2 ft-lbs/in)	2710 MPa 393,000 psi	23 MPa 3390 psi	78	74.4° C (166° F)				●	●	●	●	●	●	max 5.59mm (0.220")								●		●			●								●	●			
KYDEX® 6565	53-160 J/m (1-3 ft-lbs/in)	2896 MPa 420,000 psi	45 MPa 6500 psi	98	78.3° C (173° F)		●	●	●	●	●	●	●	●							●	●	●	●	●	●	●										●			
KYDEX 6565(d)®	53 J/m (1 ft-lbs/in)	3833 MPa 556,000 psi	43 MPa 6200 psi	111	75.9° C (169 F)			●	●	●	●	●	●	●							●	●	●	●	●	●	●								●	●		●		
KYDEX® HD	33.9 N-m* 300 in-lbf*	3367 MPa 489,000 psi	50 MPa 7200 psi	114	75.1° C (167° F)	●																●							●							●				
KYDEX® L	801 J/m (15 ft-lbs/in)	2480 MPa 360,000 psi	42 MPa 6100 psi	94	75.6° C (168° F)		●	●	●	●	●	●	●	●							●	●	●	●	●	●	●		●								●			
KYDEX® T	801 J/m (15 ft-lbs/in)	2480 MPa 360,000 psi	42 MPa 6100 psi	94	75.6° C (168° F)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●			●			
KYDEX® T MC	801 J/m (15 ft-lbs/in)	2480 MPa 360,000 psi	42 MPa 6100 psi	*	75.6° C (168° F)			●	●	●	●	●	●	●							●	●	●	●	●		●											●		
KYDEX® WG	35.06 N-m* 310 in-lbf*	3367MPa 489,000 psi	50 MPa 7200 psi	114	75.1° C (167° F)		only 0.76mm (0.030")																	●										●		●		●		
KYDEX® XD	48.58 N-m* 430 in-lbf*	2480 MPa 360,000 psi	42 MPa 6100 psi	94	75.6° C (168° F)		only 0.76mm (0.030")														●	●	●	●	●	●	●		●											

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

## Custom Products

Kleerdex can customize virtually any sheet characteristic to satisfy highly unusual applications that require specific properties, ratings, dimensions, textures, colors or patterns not offered by individual grades of KYDEX® sheet. Minimums apply.

Sheet characteristics that can be customized are as follows:













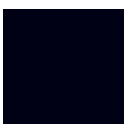
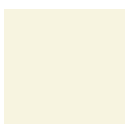

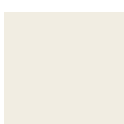



- Mechanical properties
- Electrical properties
- Chemical properties
- Fire and smoke certifications
- Sanitary certifications
- Weatherability
- Sheet and roll sizes
- Surface textures
- Colors and patterns



Standard Grades Overview

Grade	Description	Air	Ma	Me	Eq	Ort	Sto	Kio	Col	Ext	Cle	Foc	Illu	Bui	Ext	Mis	UL	UL	UL	UL	FAR	FAR	CL	CL	MV	AST	AST	NSI	BS	BR	EC	(-)	DIN	(S)	DIN	(S)	EP	CL	Ro		
KYDEX® 100	Ultra high impact, high performance, fire-rated sheet suitable for a broad range of demanding applications.	●	●		●	●										●	●		●	●	●				●			●		●	●	●	●		●				●		
KYDEX® 101	White #62000 or Black #52114 substrate with colored, weatherable cap for thermoforming letter backs of electrical signage. Eliminates painting.				●								●		●		●		●	●	●																				
KYDEX® 107	For National Sanitation Foundation applications. Numerous textures/sizes, limited colors. FDA approved raw materials. Cost competitive with ABS sheet.											●					●											●												●	
KYDEX® 110	Super tough, durable, METALLIC-colored, proprietary alloy sheet, sets new standards for thermoformers in: formability, rigidity, breakage resistance, fire retardancy and aesthetics.	●			●		●	●	●	●							●		●		●			●																●	
KYDEX® 115	Rigid, sag-resistant ceiling panel grade in 2.03mm (0.080") thickness, available pre-cut. Class 10 rated for clean rooms. Also for food plants, computer rooms, etc.											●	●											●																●	
KYDEX® 130	High performance sheet with integral granite pattern in five colors. Rated Class I/A for non-wallcovering applications. UL 94 V-0 and 5V fire rating.	●			●	●	●	●	●	●						●	●		●		●			●																●	
KYDEX® 150	High performance sheet for building product applications. Rated Class I/A and Class 100 in gauges to 1.52mm (0.060"); Class II/B in gauges to 2.36mm (0.093"). UL listed.						●							●										●				●												●	
KYDEX® 152 WG	Super tough, durable, sheet sets new standards for thermoformers and membrane pressers in: toughness and fire retardancy in a woodgrain design.	●					●	●	●	●									●		●			●																	
KYDEX® 160	High performance sheet for building product and clean room applications. Rated Class I/A in gauges to 3.20mm (0.125"). UL listed.						●					●		●			●						●	●																●	
KYDEX® 510	KYDEX® sheet of any color with a clear, weatherable cap. Cap available with black/white pattern.				●		●	●		●						●	●	●		●		●								●											●
KYDEX® 550	Weatherable, monolithic (no cap) sheet in limited light colors. Excellent impact resistance.				●											●	●		●																					●	
KYDEX® 1900	Mid-temperature grade with improved heat distortion characteristics for higher in-service temperatures 75-81°C (168-178°F). Meets FAR requirement 25.853 (a)	●																			●																			●	
KYDEX® 5555	Specially formulated sheet to meet all fire retardancy requirements set forth in Federal Aviation Regulations 25.853 paragraphs (a) and (d).	●																			●	●					●													●	
KYDEX® 6185	High-temperature grade with improved heat distortion characteristics for higher in-service temperatures 82-90°C (180-195°F). Meets FAR requirement 25.853 (a).	●															●				●																			●	
KYDEX® 6200	High performance grade for mass transit vehicle and aircraft interiors. Meets FTA and FRA fire requirements. Meets low smoke generation requirements.	●	●															●			●				●	●	●									●				●	
KYDEX® 6200 LTA	Specifically formulated to meet stringent flame-smoke-toxicity (FST) requirements of the aviation industry.	●																			●					●														●	
KYDEX® 6200 LTR	Formulated for mass transit interior applications where SMP800C is required.		●																		●				●	●	●													●	
KYDEX® 6565	High performance grade for aircraft interiors. Meets FAR fire requirements 25.853 (a) and (d). Meets low smoke and low RHR generation.	●																			●	●			●	●	●													●	
KYDEX 6565 (d)®	High performance, decorative thermoplastic sheet specifically formulated to meet the safety needs of the aviation industry. Meets FAR fire requirements 25.853 (a) and (d).	●																			●	●					●													●	
KYDEX® HD	Thermoplastic 3D laminate with integral color and high impact resistance. Eliminates unsightly seams and the need for edgebanding.						●	●	●	●														●																●	
KYDEX® L	Damage-resistant laminating material. Ratings of Class I/A and UL 94 V-0 in gauges to 1.02mm (0.040"). Can also be thermoformed and membrane pressed.						●	●	●	●							●		●					●																●	
KYDEX® T	High impact, high performance, fire-rated sheet. Cost competitive with flame retardant ABS but with greater impact and extensibility.	●	●	●	●	●		●								●	●		●		●				●			●	●	●	●	●	●	●	●	●	●	●	●	●	●
KYDEX® T MC	Super tough, decorative sheet brings new dimensions to thermoformers: rigidity, abrasion resistance, and fire retardancy. Meets FAR fire requirements 25.853 (a).	●																			●																				
KYDEX® WG	Decorative woodgrain thermoplastic 3D laminate with integral color and high impact resistance.						●	●	●	●														●																	
KYDEX® XD	Thermoplastic 3D laminate with integral color, extreme durability, and superior impact resistance.						●	●	●	●														●																●	

## 36 Standard Colors

				
RED 12000	ROOSTER RED 12037	CABERNET 12038	TERRACOTTA 12148	ORANGE 22031
				
SUNFLOWER 22158	LIME 22184	APRICOT 22182	MYSTIC GREEN 32060	SEA GREEN 32077
				
LOGO GREEN 32169	KHAKIGRUN 32170	CADET BLUE 42000	CANYON BLUE 42107	TWILIGHT 42110
				
BUOYANT BLUE 42112	WILD ORCHID 42369	CALCUTTA BLACK 52000	PEWTER GRAY 52001	DARK GRAY 52002
				
STEEL GRAY 52068	PINSTRIPE 52070	BLACK 52114	POLAR WHITE 62000	IVORY 62015
				
SNOWFLAKE 62029	MONTEREY 62033	VANILLE SC 62340	BEIGE 72005	CHOCOLATE 72010
				
COCOA 72047	ROUGE 72175	DAYBREAK 72177	SANDY BEACH 72179	SAVANNA 72567

KYDEX® thermoplastic sheet is available in 36 standard colors (shown) and over 3500 custom-blended colors, as well as custom-matched colors. Colors are offered in a variety of thicknesses and surface textures. Colors are representative only, and selection should not be based solely on the above chart.

Contact Kleerdex Company or its sales representatives for a custom color match to fit your application.

## Thicknesses

Custom thicknesses also available

0.56MM (0.022")

0.71MM (0.028")

1.02MM (0.040")

1.52MM (0.060")

2.03MM (0.080")

2.36MM (0.093")

3.18MM (0.125")

3.96MM (0.156")

4.75MM (0.187")

6.35MM (0.250")

7.92MM (0.312")

8.25MM (0.325")

9.52MM (0.375")

10.80MM (0.425")

12.70MM (0.500")

Chip chains containing samples of KYDEX® sheet standard colors, metallic colors, granite patterns, surface textures and sheet thicknesses are available through the Customer Service Department.



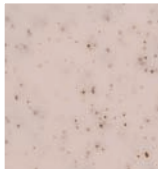
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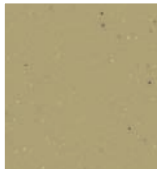
# Patterns

Shown actual size

## KYDEX® 130 GRANITE



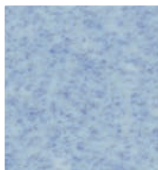
ROSESTONE  
82101



DESERT SAND  
82703



GLASS GREEN  
82303



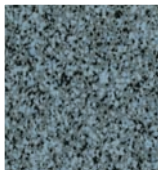
NAVY BLUE  
82401



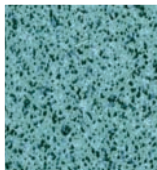
BLACK  
82503

## KYDEX® 510 GRANITE

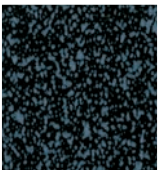
Shown with black/white cap. Rust/gray or clear cap also available



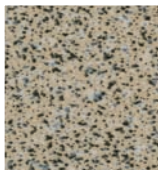
PINSTRIP  
52070



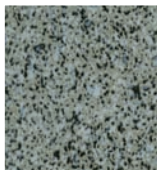
PASTEL BLUE  
42031



BLACK  
52114



SANDY BEACH  
72179



STEEL GRAY  
52068

## KYDEX SHEET WOOD GRAINS

Shown 50% of actual size



PEARWOOD



RUSTIC CHERRY



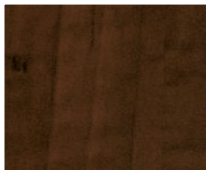
RIGA BIRCH



CANDLELIGHT



TUNDRA BIRCH



CHOCOLATE PEAR



SUMMERFLAME



RED ALDER



HONEY MAPLE



FUSION X



ELMAU BEECH

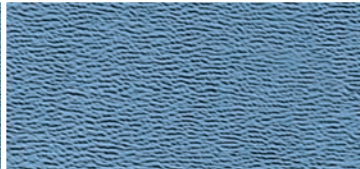
Patterns are representative only, and selection should not be based solely on the above chart.

# Surface textures

Shown actual size



P-E SMOOTH NAP



P-C LEVEL HAIRCELL



P-K CASHMERE



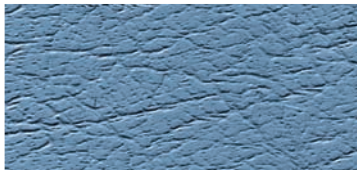
P-3 VELOUR MATTE



P-1 HAIRCELL



P-8 SUEDE



P-H SEVILLE



P-A SMOOTH



## History

KYDEX® proprietary thermoplastic was introduced by Rohm and Haas Company in 1965. "KYDEX 100" sheet, the only grade at the time, carried an FAR 25.853 (a) and UL recognized fire rating and exhibited a range of mechanical properties desirable for aircraft interior applications, prompting United, American, Delta and other major airlines to thermoform aircraft interior parts from the material. Additional KYDEX alloys were subsequently developed to meet the requirements of original equipment manufacturers in other industries.

In 1987, Kleerdex Company purchased the KYDEX product line and developed additional grades to provide the physical, electrical and chemical properties, and fire ratings, required for mass transit vehicles, electrical enclosures, medical products and other demanding applications, as well as general-purpose grades that outperform fire retardant ABS and polycarbonate at comparable prices.

In addition to thermoforming applications, customers began using KYDEX sheet as a protective wallcovering for commercial, retail, institutional and industrial buildings—a major market for KYDEX sheet.



Similarly, wood product manufacturers, in an effort to eliminate the cracking and chipping problems of high-pressure laminates, began to laminate, miter fold and post form KYDEX sheet, producing wood-core components of commercial furniture, store fixtures, kiosks and displays—applications that now comprise a large market for KYDEX sheet.

Demand was fueled by the suitability of KYDEX sheet as a damage-resistant material for membrane pressing, a rapidly growing method of surfacing flat and three-dimensional wood-core substrates.

KYDEX sheet was available exclusively in solid colors until 1995, when integral granite patterns were introduced. Next came "granite-capped" sheet consisting of a reverse-printed layer of clear film permanently fused to KYDEX substrates in complementary colors. Today, numerous capped sheets are offered in decorative patterns rang-

ing from woven carbon fiber and metallics to camouflage and highly realistic woodgrains, imparting components with a high style appearance—as well as the durability needed to keep them looking new.

Today, KYDEX sheet is produced in Bloomsburg, PA, USA, at Kleerdex Company's vertically integrated manufacturing facility that is certified to the ISO 9002:2000 quality management system and ISO 14001 environmental management system.

The products manufactured here are marketed worldwide by an extensive network of Kleerdex customer service personnel and factory-trained sales representatives who provide customers with technical advice on designing and manufacturing components that benefit from the special properties offered by KYDEX proprietary thermoplastics.



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 or the accuracy of this information or the suitability of our products in any given situation. Users of our products should make their own tests to determine the suitability of each product for their particular purposes. 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, and 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.

### **Kleerdex Company, LLC**

ISO 9001 and ISO 14001 Certified

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**KYDEX®**  
THERMOPLASTIC SHEET