



Building Interiors

PRODUCT CATALOGUE

SEKISUI | KYDEX

KYDEX® Thermoplastics can deliver an architectural and consistent look and feel while improving durability and functionality.

They are impact, chemical- and stain-resistant, ideal for high traffic areas such as wall panels, acoustic panels, kiosk housings, building materials, check-out stands, counter tops, and point of sale.



Why SEKISUI KYDEX?

We are more than a raw material supplier, we are a solution provider. As your collaborative partner we put innovation at the forefront by guiding you through your project from beginning to end. The experts in our Innovation Centers, designLab® and appLab™, are available to help you identify the best solutions for your applications.

CUSTOMIZE YOUR JOURNEY

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Sustainability Initiatives

SEKISUI KYDEX focuses on making the planet better for future generations by ensuring the lifecycle of KYDEX® Thermoplastics is a sustainable one.



In House Recycling:
UltraPoly



SEKISUI Zero Emissions Program Certification



Waste converted to energy powers our campuses



LCA ISO 14040: 2006
ISO 14001:2015



Greenhouse Gas Reduction Initiative

CONNECT WITH US



SEKISUI KYDEX CUSTOMER COLLABORATION

- kydex.com
- info@kydex.com
- 1.800.325.3133

appLab™ FOR TECH SUPPORT

- kydex.com/app-lab
- appLab@kydex.com
- 1.800.682.8758

designLab® FOR CREATIVE SUPPORT

- kydex.com/design-Lab
- designLab@kydex.com

KYDEX® Thermoplastics offer unlimited possibilities to customize color to match your brand and palette. We work with each customer to develop custom imaging and designs that become part of the material, integrating subtle brand and design cues that enhance the overall look and feel of the space. Color consistency throughout the material reduces the appearance of marks and scratches.

Thermoplastic sheets can conform to horizontal and vertical surfaces including sharp corners, compound curves, and undercuts, and offer an environmentally friendly alternative to traditional materials. Our quick response manufacturing model allows us to manufacture bespoke materials with short lead times in small quantities.

When to Consider Thermoplastics

- Production runs ranging from 10 to 1,500 units
- Short component part lead time
- Larger parts that would require costly injection molding tooling
- Need improved durability and weatherability
- Improve design aesthetic qualities

Product	ASTM E-84 / Class 1A	Metallic	UL-94V0	BS 476 Part 6 & Part 7*	Anti-microbial	Quat Compatibility	Chemical Resistance to Disinfectants
KYDEX® XD MB Antimicrobial, extreme durability, superior impact, 3D laminate	■			■	■	■	■
KYDEX® XD Extreme durability, superior impact, 3D laminate	■			■		■	■
KYDEX® XD03 Integral pearlescent, high-performance sheet	■	■		■		■	■
KYDEX® 110 Fire-rated metallic sheet with excellent durability	■	■	■			■	■
KYDEX® 150 Thermoformable high impact thermoplastic with Class ASTM E84 Class 1A rating <.060"	■					■	■
KYDEX® 160 Thermoformable high impact thermoplastic with Class ASTM E84 Class 1A rating <.125"	■					■	■
KYDEX® XD WG Decorative wood grain, 3D laminate (capped)	■					■	■

* BS 476 Part 6 and 7: British Standard for fire propagation and classification of the surface spread of flame.

KYDEX® Thermoplastics have distinct design, cost, and environmental advantages over fiberglass and HPL.

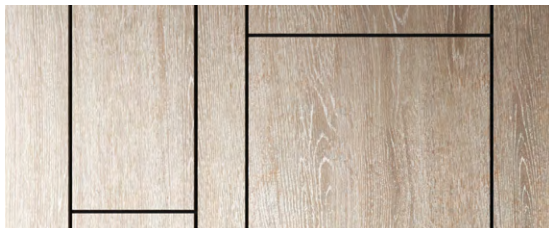
Light weight, KYDEX® Thermoplastics including Infused Imaging™ are 100% recyclable making them an environmentally sound solution that supports end-of-life recyclability and life-cycle design. The manufacturing processes do not outgas VOCs or produce hazardous waste.

KYDEX® Thermoplastics offer more complex geometries and improved aesthetics than the alternatives.

In addition, as part numbers increase, costs are reduced when using KYDEX® Thermoplastics because they are less labor intensive and do not require painting.

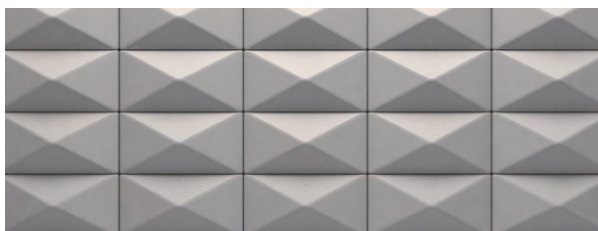


	 THERMOPLASTICS	 HIGH PRESSURE LAMINATE	 FIBERGLASS
 DURABILITY	Excellent No color layer to wear through Doesn't chip or crack	Thin cosmetic layer that wears through with abrasion Prone to cracking and chipping	Surface chips/cracks
 CHEMICAL RESISTANCE	Excellent Resists harsh disinfectants including Quats – (Quaternary Ammonium Compounds)	Varies, only premium grades are chemical resistant	Good. Cosmetic layer resists many chemical cleaners
 CUSTOMIZATION & DESIGN	Integral custom colors available with low MOQ Metallic options Textures and custom Infused Imaging™ options	Limited options	Limited options
 SUSTAINABILITY/ ENVIRONMENTAL	Excellent 100% recyclable No plasticizers Green Guard certified Silica Free	Non-recyclable Hazardous to process Silica Free	Non-recyclable Hazardous to process Contains Silica
 EASE OF FABRICATION	Excellent Can be heat bent, cold fabricated, laminated, membrane pressed and adhered to a multitude of substrates	Brittle and damages easily during installation Limited fabrication options	Flat lamination only
 ASTM E84 CLASS 1A	Standard	Optional	Optional



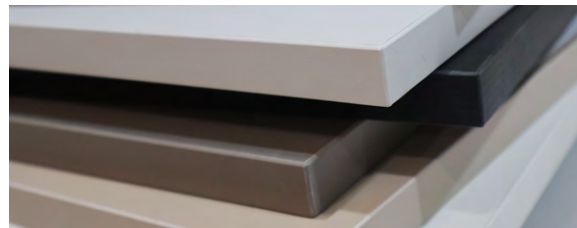
Flat Laminating

- KYDEX® 3D Laminate can be adhered to wood, metal, gypsum, profiled aluminum sheets, and rigid foam using commercially available adhesives, and hot or cold pressing methods.
- The result is a protective surface that does not chip, crack, break, or snap.



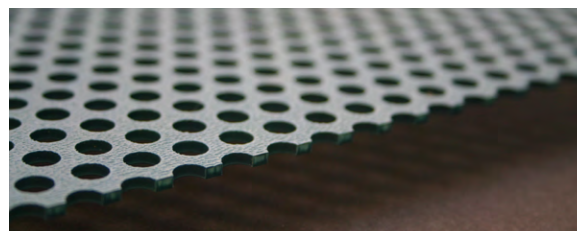
Membrane Pressing

- Uses vacuum and pressure to apply heated KYDEX® 3D Laminate onto a wood or composite substrate.
- The substrate can be routed to any three-dimensional shape including compound curves, undercut edges, profiles, sharp details and rounded corners.
- Substrates are sprayed with adhesive and rolled into a heating chamber with KYDEX® 3D Laminate suspended above.
- The sheet is heated while vacuum and pressure press the laminate onto the substrate and into recesses, encapsulating all but the bottom surface (which can be prelaminated with matching melamine or flat laminated with KYDEX® 3D Laminate).



Miter Folding

- Wood substrates laminated with KYDEX® 3D Laminate can be miter folded to produce seamless outside corners of cabinets, drop-front shelving or table legs by routing a Vgroove(miter) across the backside of the wood without touching the laminate.
- Both mitered wood edges are then sprayed with adhesive and hinged on the laminate to close the groove, forming a seamless outside corner.



Fabricating and Machining

- KYDEX® sheet is easy to saw, die cut, shear, route, drill, sand, file, mill, and machine using conventional tools.
- It can be post-formed and brakeformed (with or without wire heating), or heat welded to create seamless, sanitary corners.
- Joining is accomplished using screws, rivets, other fasteners or commercially available adhesives — without the cracking, chipping or snapping associated with many thermoplastic and thermoset sheet products.

[Watch 3D Laminate Video](#)

[Read Technical Brief 150E
KYDEX® Sheet Adhesive Guide](#)

KYDEX® sheet is also available in heavier gauges that are self-supporting and can be utilized without a substrate for fabrication, forming and machining brackets, partitions, housings and other accessories that match your fixture components.

If your current sources do not offer membrane pressing, our appLab™ team can provide you with guidance and or additional resources.

Aggressive cleaning agents and disinfectants are critical in eliminating surface bacteria and fungi to reduce the spread of disease.

Testing results confirmed KYDEX® Thermoplastics:

- are not adversely affected by industry leading cleaners and disinfectants
- perform without loss of surface finish, color fastness, or degradation of mechanical and physical properties

Using the right materials and understanding their compatibility with disinfectants is vital to ensuring a long, functional life.

[READ TECH BULLETIN](#)



PRODUCT NAME	ACTIVE TECHNOLOGY	EPA REG #
Super Sani-Cloth® Germicidal Disposable Wipes	n-Alkyl dimethyl ethylbenzyl ammonium chlorides; n-Alkyl dimethyl benzyl ammonium chlorides; Isopropyl Alcohol	9480-4
Sani-Cloth® AF3 Germicidal Disposable Wipes	n-Alkyl dimethyl ethylbenzyl ammonium chlorides; n-Alkyl dimethyl benzyl ammonium chlorides	9480-9
Sani-Cloth® Bleach Germicidal Disposable Wipes	Sodium hypochlorite	9480-8
Sani-Cloth® Prime Germicidal Disposable Wipes	Didecyl Dimethyl Ammonium Chloride; Ethyl Alcohol; Isopropyl Alcohol	9480-12
Sani-HyPerCide™ Germicidal Spray	Hydrogen peroxide	9480-14
Sani-24® Germicidal Spray	Alkyl dimethyl benzyl ammonium chloride; Didecyl dimethyl ammonium chloride; Octyl decyl dimethyl ammonium chloride; Dioctyl dimethyl ammonium chloride; Ethanol	42182-9
Sani-Prime® Germicidal Spray	Didecyl Dimethyl Ammonium Chloride; Ethyl Alcohol; Isopropyl Alcohol	9480-10
CaviCide™ AF	Diethylene Glycol Monobutyl Ether; Alkyl dimethyl ethylbenzyl ammonium chlorides; Alkyl dimethyl benzyl ammonium chlorides	46781-12
CaviWipes™ Bleach	Sodium hypochlorite; Other Ingredients	46781-14
Caviwipes1™	Isopropanol; Ethanol; Ethylene Glycol Monobutyl Ether; Didecyl dimethyl ammonium chloride; Sodium Lauryl Ether Sulfate; Sodium Hydroxide; Surfactant	46781-13
Caviwipes™	Isopropanol; Ethylene Glycol Monobutyl Ether; Diisobutylphenoxyethoxyethyl dimethyl benzyl ammonium chloride; Sodium Hydroxide; Surfactants	46781-13
Clorox® Disinfecting Spray	Sodium nitrite; n-Alkyl dimethyl benzyl ammonium chloride; Octyl decyl dimethyl ammonium chloride	67619-21
Dispatch® Hospital Cleaner Disinfectant Towels with Bleach	Sodium hypochlorite	56392-8
LpH® se	Phosphoric acid; 2-Phenylphenol; 4-tert-pentylphenol; Isopropyl alcohol; Sulfonic acids; Sodium xylene sulfonate; Benzenesulfonic acid	1043-91
Lysol® Brand Disinfectant Concentrate	Didecyl dimethyl ammonium chloride; Alkyl dimethyl benzyl ammonium chlorides; Sodium hydroxide	675-54
Professional Lysol® Brand Disinfectant Spray	Ethyl alcohol; Butane; Propane	777-127
Sporicidin Disinfectant Solution	Phenol; Sodium phenate	8383-3
Sporicidin Disinfectant Towelette	Phenol; Sodium phenate	8383-7
Vesphene® IIse	Sulfonic acids; 2-Phenylphenol; 4-tert-pentylphenol; Potassium hydroxide; Phosphoric acid; Sodium hydroxide; Sodium xylene sulfonate	1043-87

These products are found on EPA's website as List N entitled Disinfectants for Coronavirus (COVID-19). On April 2, 2020, the CDC updated their recommendations to refer to List N on the EPA website for EPA-registered disinfectants that have qualified under EPA's emerging viral pathogens program for use against SARS-CoV-2. Link to EPA website, List N: <https://www.epa.gov/pesticide-registration/list-n-disinfectants-coronavirus-covid-19>

[CLICK HERE FOR FULL LIST](#)

CUSTOMIZATION CREATED THROUGH INNOVATION

The SEKISUI KYDEX Innovation Centers, designLab® and appLab™, are where engineering and design meet. They are collaborative spaces for clients and customers to bring the supply chain together for rapid prototyping and to inspire color, material, and finish designers. Every interaction is curated to help customers reach their goals. Focused not only on products and processes, they are also designed for paths of discovery and exploration. Visitors explore 'what if?' questions and leave with tangible, actionable ideas.



INNOVATION
CENTERS

**TAKE A VIRTUAL TOUR OF
OUR INNOVATION CENTERS**

designLab®

designLab® is where art and science combine in a collaboration space for industry thought leaders to develop a deeper understanding of color and design. Explore the latest in 3D virtualization with X-Rite's TAC™ Ecosystem. Use vivid colors, textiles, imagery, technology, and real-world examples to create your own prototype.

- designLab® Exploration
- Custom Color Creation
- Infused Imaging™ Design
- X-Rite TAC™ Ecosystem



Thermoforming KYDEX® inside appLab™

appLab™

Inside appLab™, OEM industrial engineers and designers have plenty of room to explore – and ideas have plenty of room to grow. The appLab team uses dedicated fabrication tools, test equipment, and technology to develop, refine, and produce custom solutions that are production ready.

- Part Prototypes
- Mold Design
- Certifications and Regulatory Requirements
- Thermoplastics Training
- Physical Properties
- Testing Thermoforming

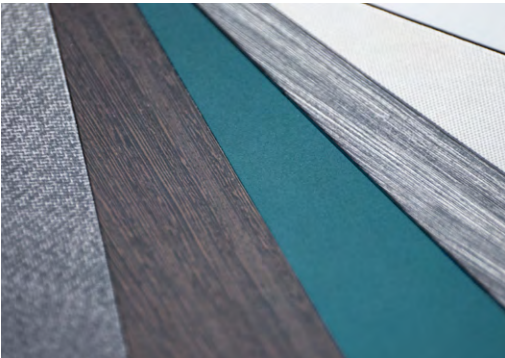
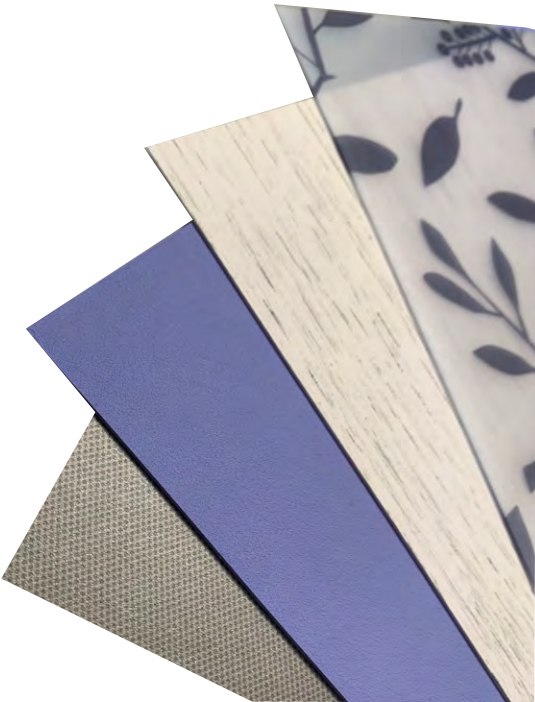
Infused Imaging™ puts color and imagery *into* thermoplastic material.

Not on it.

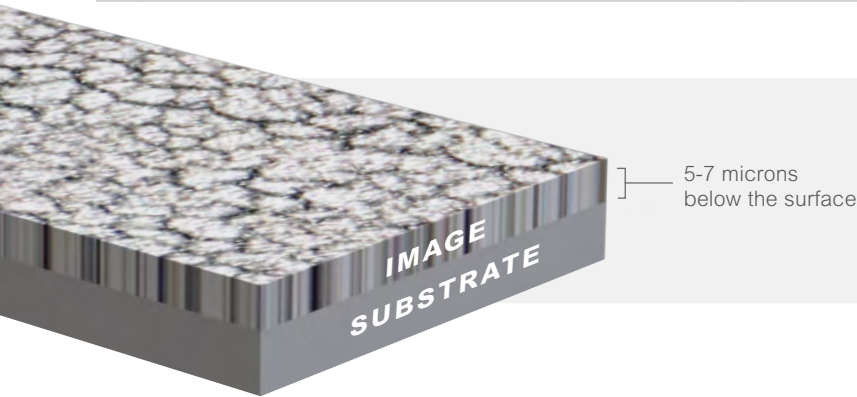
Infused Imaging™ is a proprietary process that embeds imagery into thermoplastic material.

Durability is enhanced because it does not chip, fade, or delaminate the way capped and traditionally printed images can. KYDEX® Sheet with Infused Imaging™ technology is 100% recyclable.

LEARN MORE



		NO DELAMINATION	NO START-UP/ INVENTORY COSTS	LOW MINIMUM REQUIREMENTS	SINGLE STEP	NO MATERIAL WASTE	NO TOXIC CHEMICALS
COMPETITOR PROCESS	CAPPED [in-line]	—	—	—	—	—	■
	CAPPED [press lamination]	—	—	—	—	—	■
	HYDROGRAPHICS	■	■	■	—	—	—
	SILK SCREEN / DIGITAL PRINTING	■	■	■	—	■	—
INFUSED IMAGING™		■	■	■	■	■	■



MOQs

Minimum Order Quantity

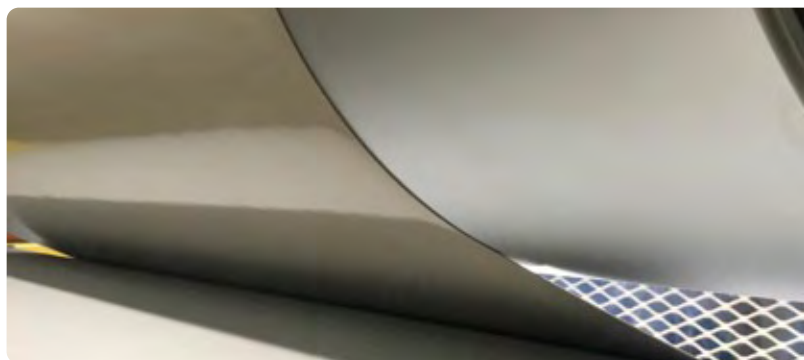
Based on 1220mm x 2440mm (48"x96") sheet, minimum order quantities based on gauge are:

mm	in	qty
0.71	0.028"	90
1.02	0.040"	60
1.52	0.060"	48
2.03	0.080"	36
2.36	0.093"	30
3.18	0.125"	24

Based on 1448mm x 3048mm (57" x 120") sheet, minimum order quantities based on gauge are:

mm	in	qty
0.71	0.028"	65

- Gauges available vary by product
- Texture availability dependent on product
- Custom colors available in all products
- Custom blank sizes available in all products



Gauges

0.71mm (0.028")

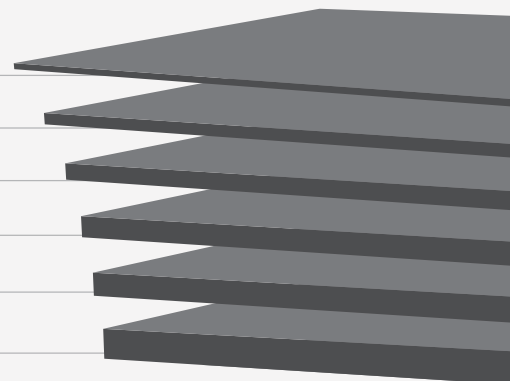
1.02mm (0.040")

1.52mm (0.060")

2.03mm (0.080")

2.36mm (0.093")

3.18mm (0.125")



HPL

Standard HPL sheets available in sizes up to 60x120'. Rolls up to 300' in length available by request.

KYDEX® Thermoplastics Textures

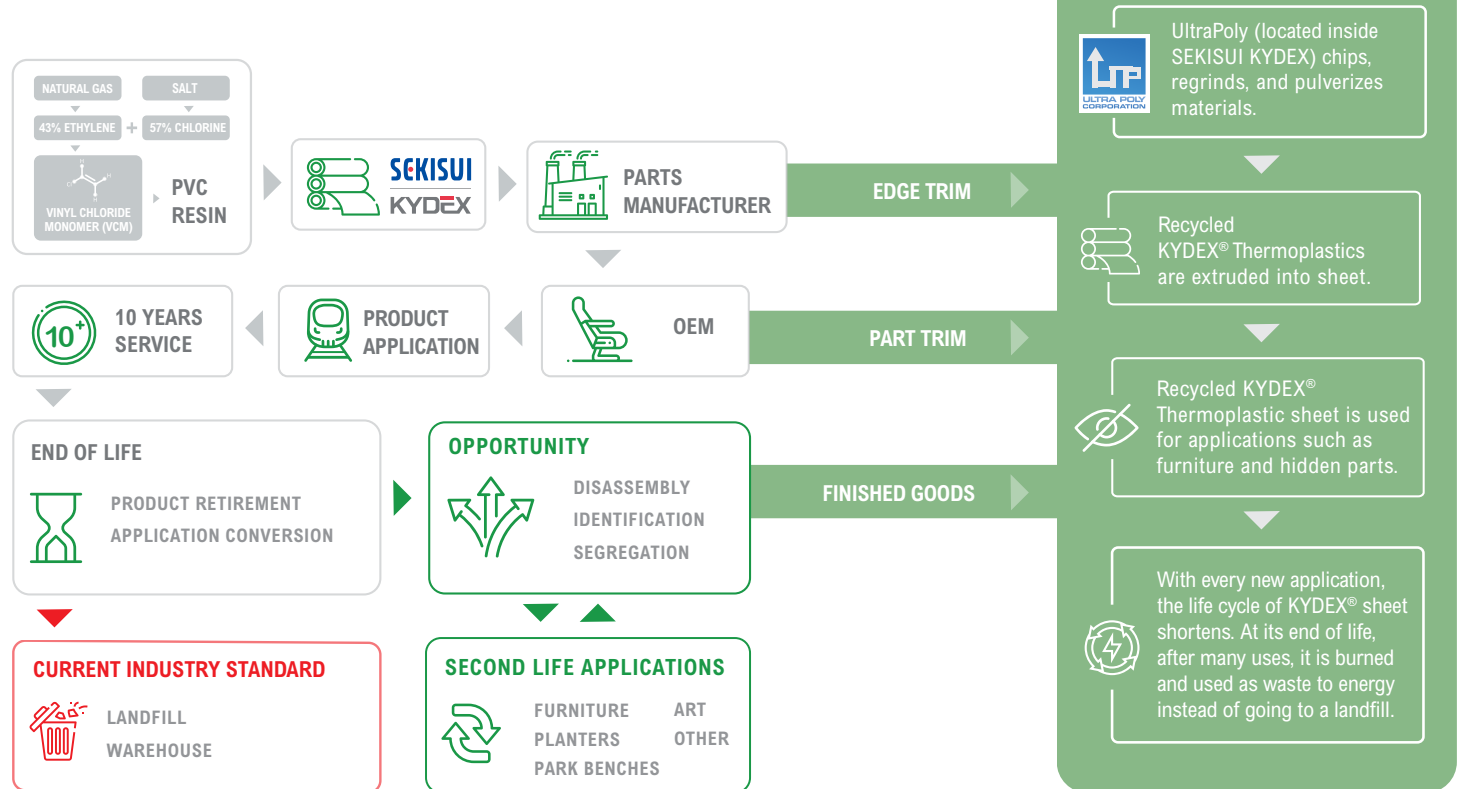
Strategic use of textures for different applications throughout the rail car interior can elevate passenger mood and experience. KYDEX® Thermoplastics are available in multiple variations of texture to promote innovative tactile design.



KYDEX® 2200 and 2210 are only available in P3 and PC textures.

SEKISUI KYDEX focuses on making the planet better for future generations by ensuring the lifecycle of our products is a sustainable one.

Here, being “green” is no recent trend. In fact, being environmentally responsible is an essential part of our business philosophy. We strive to produce and sell KYDEX® and ALLEN® Thermoplastics while keeping with our commitment to and regard for safety, health, and environmental protection worldwide.



Watch KYDEX® Sheet Lifecycle Video

Thermoplastics make an immense contribution to environmental sustainability through their energy saving potential, intrinsic recyclability, and energy recovery options.

At SEKISUI KYDEX, our products are designed with sustainability in mind. Our research and development teams are always innovating and exploring new options to improve lifecycle, recyclability, and sourcing raw materials.

KYDEX® Thermoplastics are primarily comprised of two types of polymers: polyvinyl chloride (PVC) and acrylonitrile butadiene styrene (ABS). As it's a rigid sheet, **no plasticizers are used in the manufacturing process.**

Read Our Sustainability Promise