

Mass Transit PRODUCT CATALOGUE



SEKISUI | KYDEX

KYDEX® Thermoplastics are globally recognized as the leader in high-performance specialty polymers for mass transit interiors.

The fully-compliant portfolio meets all of the stringent requirements of industry certifications for passenger safety. With a refined degree of integral finish, colour, and design, KYDEX® Thermoplastics enhance the passenger experience.



Dallas Streetcar, Included Interior: KYDEX® Thermoplastics

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



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 ample design flexibility, while meeting the most stringent fire, smoke, heat release, and toxicity requirements, providing a fully-compliant portfolio to meet all of your rail application needs.

KYDEX® 2200LT

NFPA 130 & SMP 800 & BSS7239 Compliant

A light weight and durable alternative to FRP, offering unlimited design possibilities for shape, color, and embossed features including texture. Capped with a clear overlay for cleanability and graffiti resistance.

Features & Benefits

- Customizable / Design Flexibility
- Sustainable (Lightweight / Saving Energy / Recyclable)
- Excellent Chemical, Graffiti, and Stain Resistance
- Durable



KYDEX® 2210LT

EN 45545-2 R1 & R6 Compliant

Proprietary, high performance thermoplastic sheet specifically engineered to be compliant with EN (European norm) 45545-2 R1 and R6 Hazard Level 2. Only certified in thicknesses between 2mm-4.75mm.

Long-term durability and weight savings over FRP, aluminum, or steel make KYDEX® 2210LT a desirable and more sustainable choice for customers who expect rail cars to last 20 years or more.

Features & Benefits

- Customizable / Design Flexibility
- Sustainable (Lightweight / Saving Energy)
- Excellent Chemical, Graffiti, and Stain Resistance
- Durable

KYDEX® and ALLEN® Thermoplastics are designed to be aesthetically pleasing and meet the stringent requirements of external and internal bus applications.

ALLEN® ALEXTRA

FMVSS 302 & ASTM E 162 and 662 Compliant

Industry-leading durability for extreme weather conditions maintaining high impact properties with temperatures as low as -60°F. Raises the standard for high-gloss aesthetics.

Features & Benefits

- For Exterior Applications
- Very High Gloss
- Customizable / Design Flexibility
- Sustainable (Recycling Buy-back Programs)
- Durable



Proterra Bus, Included Exterior: ALLEN® Thermoplastics



KYDEX® 6200

FMVSS 302 & Docket 90 Compliant

A light weight and durable alternative to FRP offering unlimited design possibilities for shape, color, and embossed features including texture.

Features & Benefits

- Customizable / Design Flexibility
- Excellent Chemical, Graffiti, and Stain Resistance
- Sustainable (Lightweight / Saving Energy)
- Forms to Deep Draws

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® Thermoplastics Textures



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

ALLEN® Thermoplastics Textures



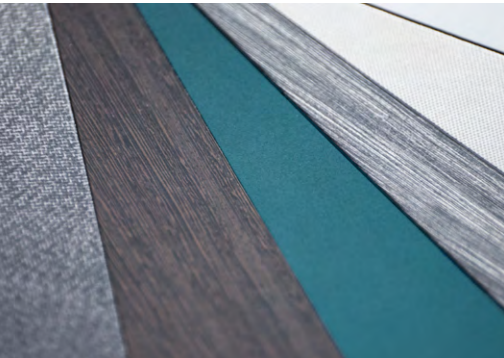
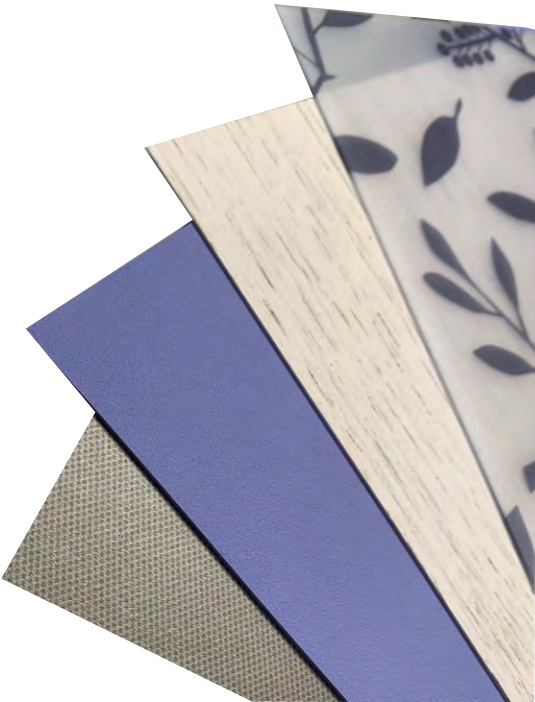
Infused Imaging™ puts colour and imagery *into* thermoplastic material.

Not on it.

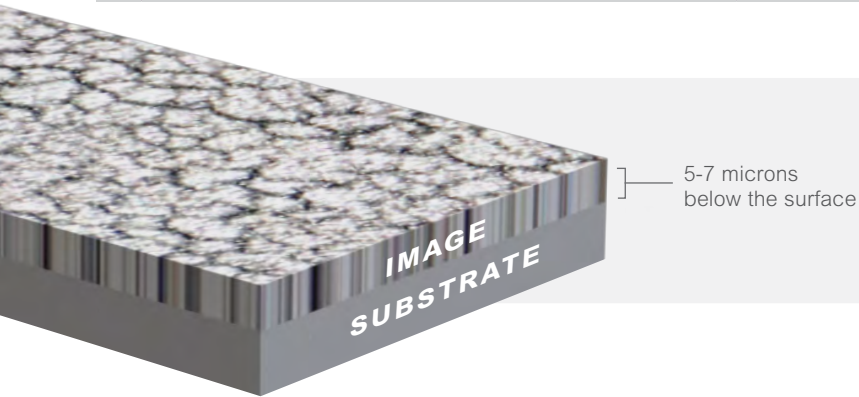
Infused Imaging™ is a proprietary process that embeds imagery into thermoplastic material.

Durability is enhanced because it does not chip, fade, or delaminate the way capped and traditionally printed images can.

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™		■	■	■	■	■	■



Pushing the boundaries of rail interiors.

At SEKISUI KYDEX, collaboration is instilled in our DNA. We believe in building productive relationships with designers, manufacturers, and end users. Nowhere is this more apparent than in our recent collaboration with N + P Innovation Design.

Given the emphasis on circular design and preference for sustainable materials within the rail industry, SEKISUI KYDEX and N + P began collaborating to bring forward thinking and flexible design solutions to rolling stock. Together, N + P and KYDEX explored how some of the strategic design agency's concepts could be executed in more durable, lighter weight thermoplastics that can be fully recycled at the end of their life cycle.

The SEKISUI KYDEX team brought N + P's designs to life using KYDEX® Thermoplastics with Infused Imaging™ Technology to create a new level of passenger experience in rail.



[LEARN MORE](#)

[VISIT THE N+P WEBSITE](#)



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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 colour, 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.



**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 colour and design. Explore the latest in 3D virtualization with X-Rite's TAC™ Ecosystem. Use vivid colours, textiles, imagery, technology, and real-world examples to create your own prototype.

- designLab® Exploration
- Custom Colour 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
- Thermoplastics Training
- Physical Properties
- Testing Thermoforming Requirements

Rail		Download Tech Data Sheets	EN45545-2 R1 & R6	DIN 5510 (-2 S4, ST2, SR1 OR 2)	ASTM E 162 & 662	SMP 800C
INTERIOR	SOLID	KYDEX® 2200LTu	↓		■	■
		KYDEX® 2210LTu	↓	■	NOT TESTED	NOT TESTED
		KYDEX® 6200	↓	■	■	
	CAPPED	KYDEX® 2200LT	↓		■	■
		KYDEX® 2210LT	↓	■	NOT TESTED	NOT TESTED
		KYDEX® 2200LTd	↓		■	■
		KYDEX® 2210LTd	↓	■	NOT TESTED	NOT TESTED
		KYDEX® 6200d	↓		■	

Bus		Download Tech Data Sheets	GLOSS	IMPACT	FMVSS-302	ASTM E 162 & 662	WEATHERABLE
INTERIOR	PVC	KYDEX® T	↓	-	HIGH	■	
		KYDEX® 6200	↓	-	MEDIUM	■	
		KYDEX® 6200d	↓	-	MEDIUM	■	
	ABS	ALLEN® 2030LG	↓	LOW	MEDIUM	■	
		ALLEN® 2040LG	↓	LOW	HIGH	■	
		ALLEN® 2065MT	↓	MATTE	HIGH	■	
		ALLEN® 2095MG	↓	MEDIUM	HIGH	■	
		ALLEN® 2155HG	↓	HIGH	HIGH	■	
		ALLEN® 2057MT	↓	MATTE	HIGH	■	
		ALLEN® 2160HG	↓	HIGH	HIGH	■	
	FR PC/ ABS	ALLEN® 8300FR	↓	HIGH	HIGH	■	

EXTERIOR	Acrylic/ABS	ALLEN® 6000	↓	LOW	MEDIUM	■	■
		ALLEN® 6010	↓	LOW	MEDIUM	■	■
	PC	ALLEN® ALEXTRA® ET	↓	HIGH	VERY HIGH	■	■
	ASA/ABS	ALLEN® 5050WLG	↓	LOWER	HIGH	■	■
		ALLEN® 5100WMG	↓	MEDIUM	HIGH	■	■
		ALLEN® 5160WHG	↓	HIGH	HIGH	■	■
		ALLEN® 5200WHG	↓	HIGH	VERY HIGH	■	■
	TPO	ALLEN® T3050LG	↓	LOW	HIGH	■	AVAILABLE UPON REQUEST