



Aviation
PRODUCT CATALOGUE

SEKISUI | KYDEX

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



Why SEKISUI KYDEX?

We are more than a raw material supplier, we are solution provider. As your collaborative partner we put innovation at the forefront by guiding you through your project from beginning to end. Our 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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- 06 INFUSED IMAGING™
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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



Zero Waste to Landfill



Waste converted to energy powers our campuses



ISO 14001: 2015



Greenhouse Gas Reduction Initiative



AIRA Partner

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 are designed to be aesthetically pleasing and meet stringent fire, smoke, heat release, and toxicity requirements, providing the only fully – compliant portfolio to meet all of your application needs.

The featured products below are categorized by flammability requirement.

VERTICAL BURN REQUIREMENTS: FAR 25.853(a)

Applications, such as tray tables and smaller parts, where the part is <1 ft² (0.09 m²).

 < 1 ft²
0.09 m²

KYDEX® T ↓
SOLID COLOUR

KYDEX® T-LW ↓
SOLID COLOUR • LIGHT WEIGHT

KYDEX® 110 ↓
INTEGRAL PEARLESCENT

KYDEX® 7200ST ↓
SOLID COLOUR
(Toxicity compliant)

P3 Texture on KYDEX® T

HEAT RELEASE & SMOKE DENSITY REQUIREMENTS: FAR 25.853(a) & (d)

Applications such as seat backs and larger parts, that are >2 ft² (0.18 m²) and passenger facing.

 > 2 ft²
0.18 m²



HI PRODUCT LINE
Ductility supports 16G Testing and HIC requirements

KYDEX® 6565HI ↓
SOLID COLOUR • HIGH IMPACT
LOW HEAT RELEASE

KYDEX® 6523HI ↓
INTEGRAL PEARLESCENT
HIGH IMPACT • LOW HEAT RELEASE

KYDEX® 5555HI ↓
SOLID COLOUR • HIGH IMPACT
EXTREME-LOW HEAT RELEASE

KYDEX® 6503 ↓
INTEGRAL PEARLESCENT
LOW HEAT RELEASE

KYDEX® 6513 ↓
FROST EFFECT
LOW HEAT RELEASE

KYDEX® FST ↓
SOLID COLOUR
(Toxicity compliant)

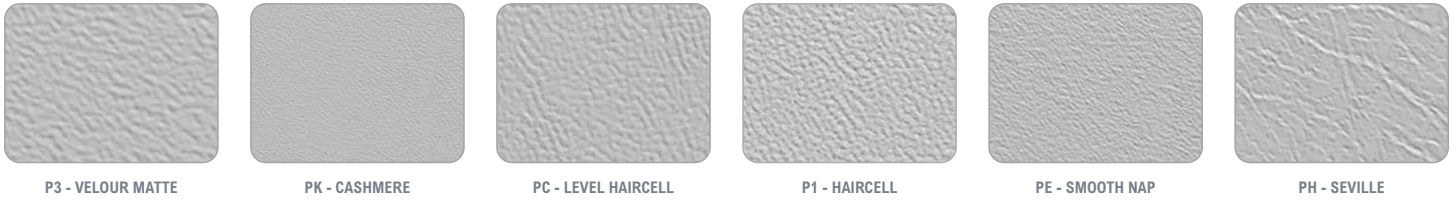
KYDEX® FST03 ↓
INTEGRAL PEARLESCENT
(Toxicity compliant)

KYDEX® 6565 HI
KYDEX® 6513
KYDEX® 6503

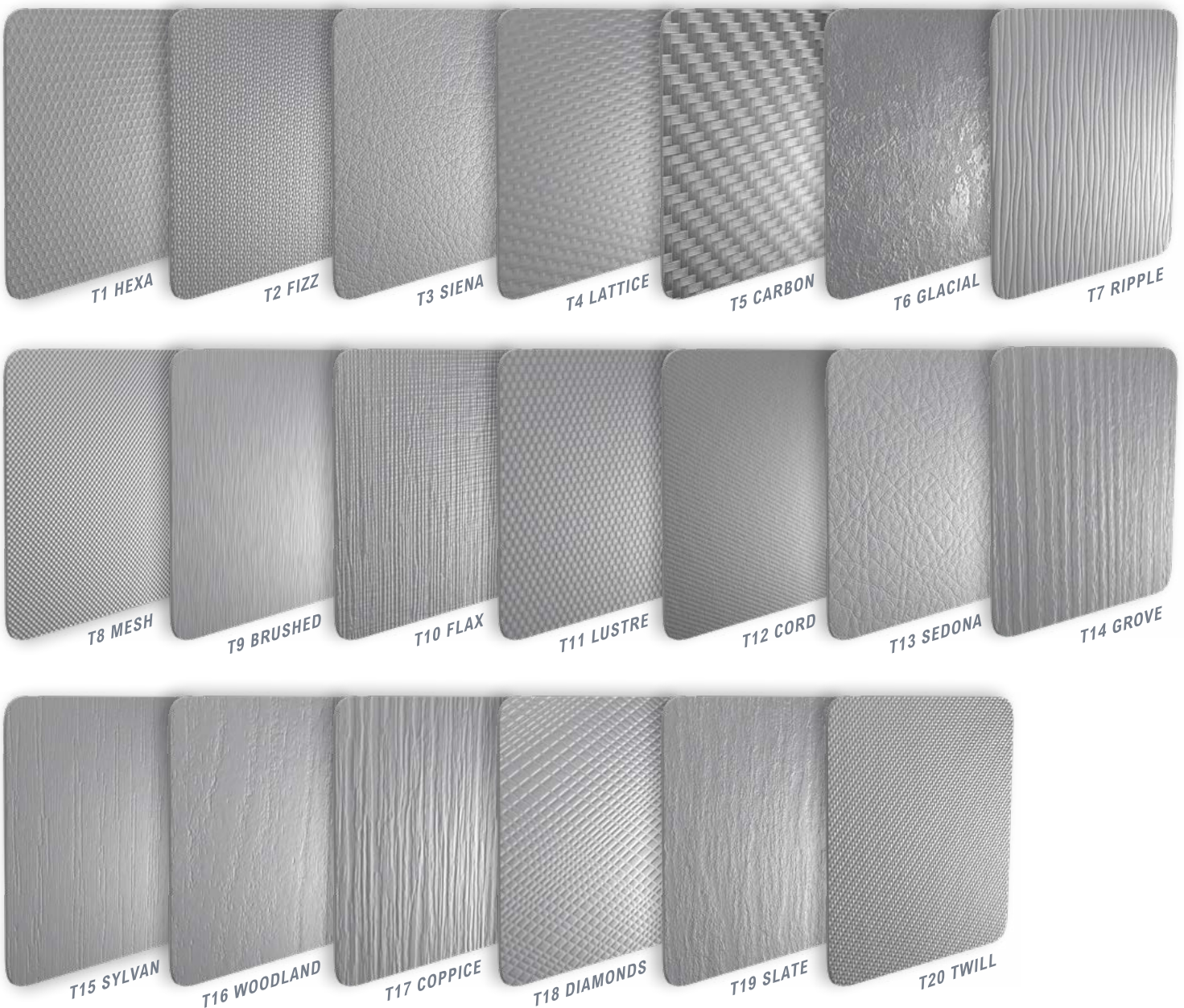
SEE PAGE 10 FOR FULL PRODUCT LIST

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

Classic Textures



Decorative Textures



Elevate the passenger experience

KYDEX[®] 7115 Lumina[™] BACK-LIT APPLICATIONS

Lumina[™] gives designers the power to craft bespoke experiences using colour, imagery, and light. It shapes and refracts light for passenger mood enhancement in areas like galley and bar accents, backlit décor, individual passenger spaces, boarding areas, and more.



**KYDEX® Kleerdex™
CUSTOM TRANSLUCENTS**

Kleerdex™ Custom Translucents are decorative thermoplastics designed for aviation interiors.

Achieve refined cabin architecture using a blend of tactile elements, pattern, and hues.



©Butterfly Flexible Seating Solutions



Clear Ambiance

Enhance your brand through enlightened design.

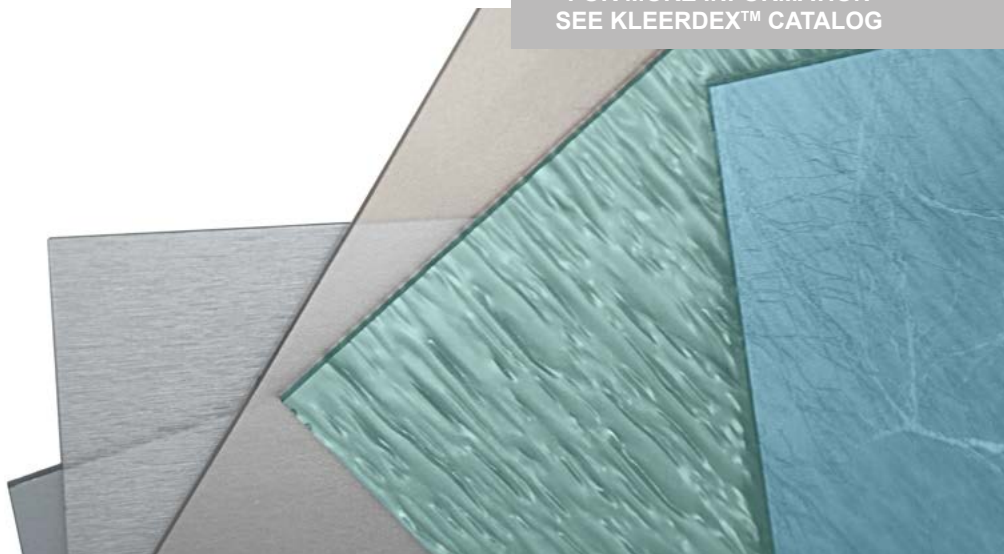
Combine texture, colour, and imagery with light to provide passengers a sense of privacy and a brighter, more spacious atmosphere.

Versatile Applications

Ideal for privacy dividers, stowage compartments, monuments, doors, and more.

Flat or formed, Kleerdex™ Custom Translucents are aviation compliant to meet your certification requirements.

FOR MORE INFORMATION
SEE KLEERDEX™ CATALOG



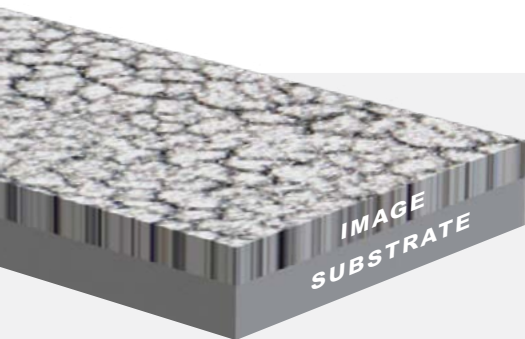
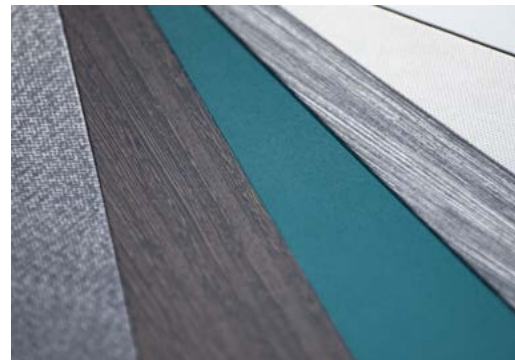
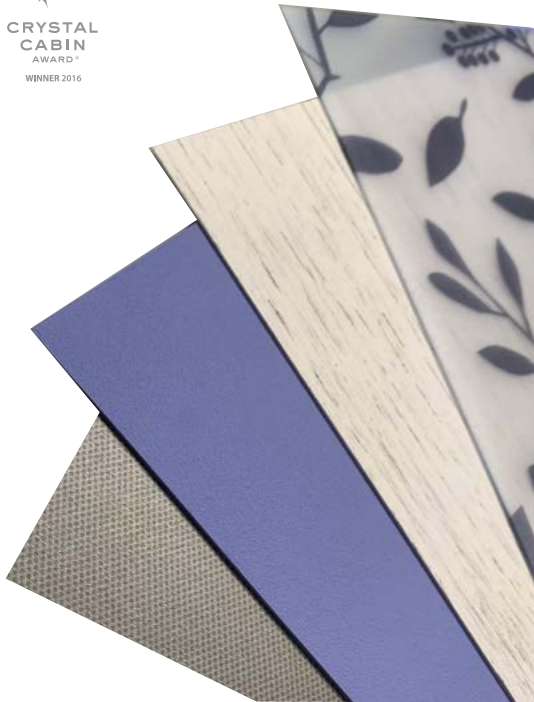
Infused Imaging™ puts colour and imagery *into* thermoplastic material.

Not on it.

Infused Imaging™ is a Crystal Cabin Award-winning, 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](#)



5-7 microns
below the surface



© Adient Aerospace



surfaceGrip™

KYDEX® 5555+SG

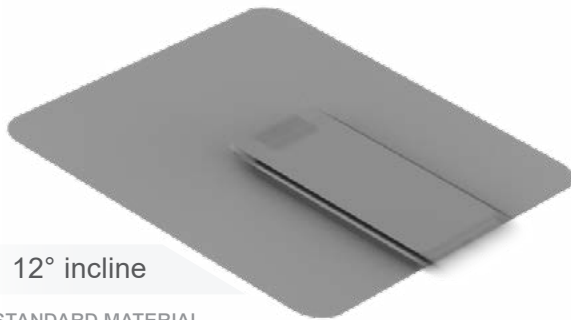
KYDEX® T+SG



25° incline

surfaceGrip™

[CLICK TO WATCH VIDEO](#)



12° incline

STANDARD MATERIAL

Developed inside the appLab™, the new KYDEX® surfaceGrip™ (SG) product line is an anti-slip, low gloss material for aviation interiors.

Available with custom colour and Infused Imaging™ technology, KYDEX® surfaceGrip™ opens the door to new design possibilities, combining integral colour, imagery, and a tactile experience with soft touch texture.

KYDEX® 5555+SG is a proprietary, high performance thermoplastic sheet with a tactile, anti-slip surface. It exceeds flammability and smoke requirements, making it ideal for tray table inlays. The product stands up to harsh disinfectants and resists staining.

[CLICK HERE TO LEARN MORE](#)



InfusedImaging™
+ surfaceGrip™

KYDEX® 5555+SG with Infused Imaging™ Technology, putting colour and imagery into thermoplastic material.

Not on it.

Passenger health and safety are at the forefront of the passenger experience, requiring materials that are chemical resistant, antimicrobial, durable, and stain resistant.

KYDEX® Thermoplastics are inherently antimicrobial and available with a range of additional antimicrobial protection options.

KYDEX® ION Technology™ and KYDEX® MB products are available with custom colour, pattern, and texture.

They are ideal for high touch areas of the aircraft cabin, such as tray tables, seat backs, armrests, IFE bezels, privacy panels, monuments, and lavatory surfaces.

ION Technology™

KYDEX® T-ION ↓

PREMIUM PROTECTION

- 99% effective at inhibiting the growth of stain and odor causing bacteria
- Chemical Resistant
- UV-B & UV-C Resistant
- FAR 25.853(a)

KYDEX® 5555HI-ION ↓

PREMIUM PROTECTION

- 99% effective at inhibiting the growth of stain and odor causing bacteria
- Chemical Resistant
- UV-B & UV-C Resistant
- FAR 25.853(a) & (d)

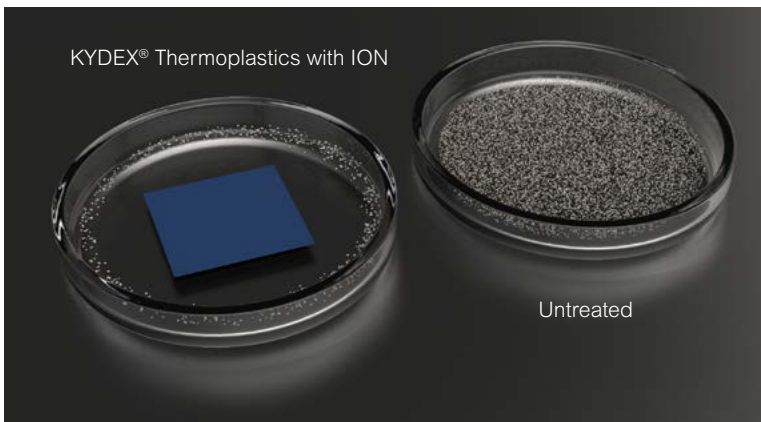
Antimicrobial MB

KYDEX® T MB ↓

- In service since 2009
- Chemical Resistant
- UV-B & UV-C Resistant
- FAR 25.853(a)

KYDEX® 5555 MB ↓

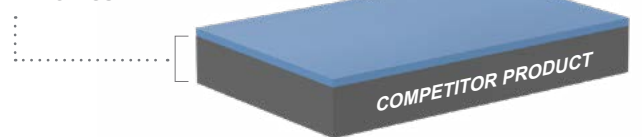
- In service since 2009
- Chemical Resistant
- UV-B & UV-C Resistant
- FAR 25.853(a) & (d)



INTEGRAL PROTECTION:
99% EFFECTIVE



NO PROTECTION
BELOW SURFACE



Disclaimer: KYDEX® Thermoplastics incorporate an advanced EPA-registered antimicrobial for the protection and preservation of our polymeric and plastic materials. KYDEX® Thermoplastics are treated only to protect the polymeric and plastic materials and do not confer protection from bacteria to users of our products. Always clean the product thoroughly after use. To learn more about KYDEX ION Technology™ or to have a technical conversation, contact our appLab™ team at appLab@kydex.com or 800.682.8758.

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, trim, 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.

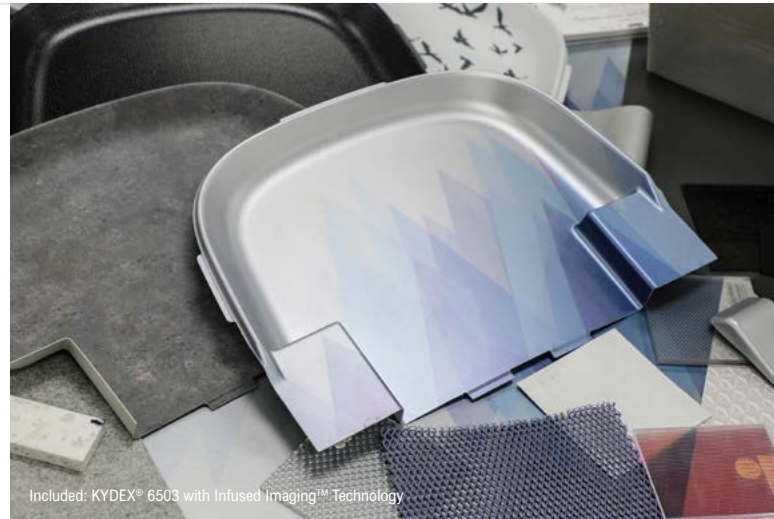


**TAKE A VIRTUAL TOUR OF
OUR INNOVATION CENTERS**

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
- Aviation Interior Lightroom
- X-Rite TAC™ Ecosystem



Included: KYDEX® 6503 with Infused Imaging™ Technology



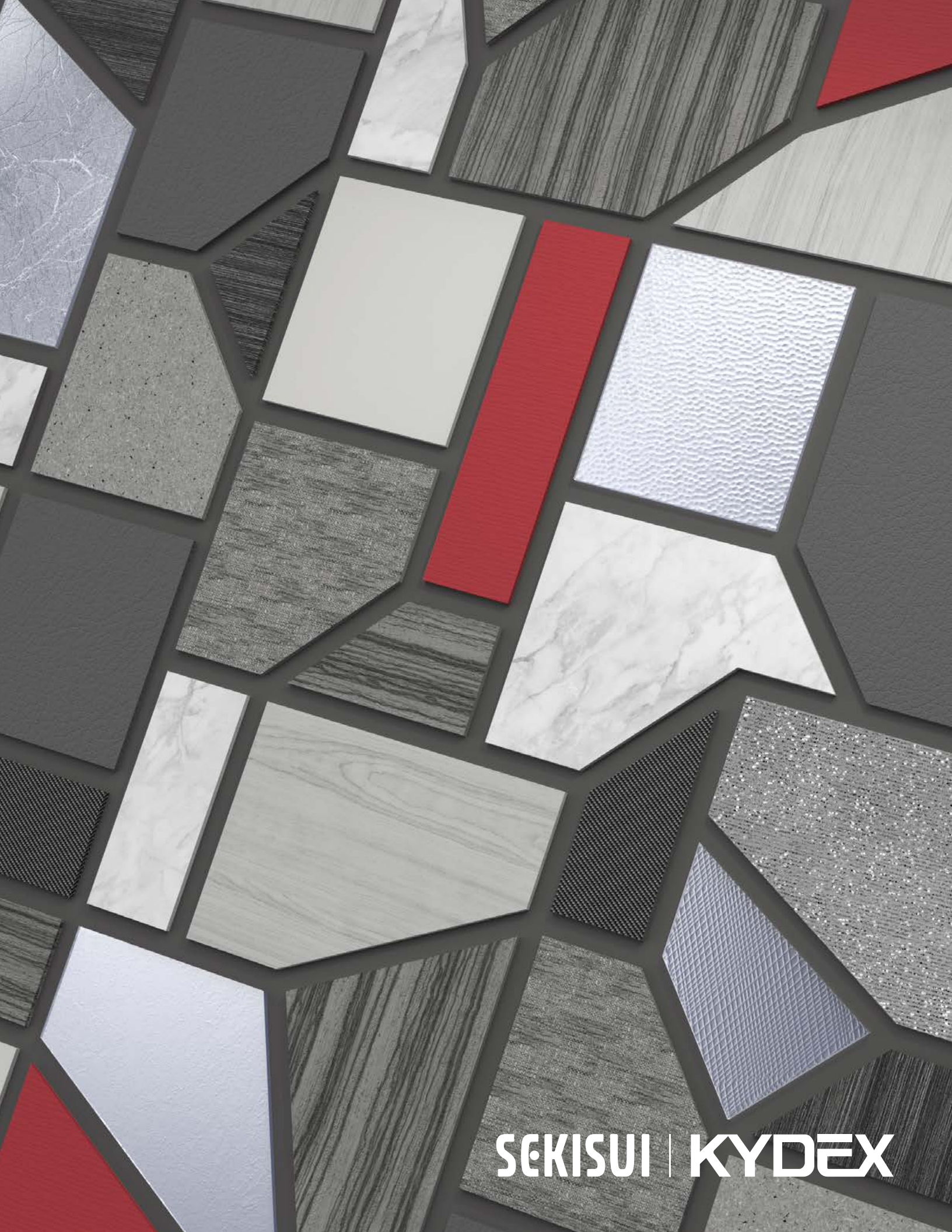
Thermoforming KYDEX® inside appLab™

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 & Regulatory Requirements
- Thermoplastics Training
- Physical Properties
- Testing Thermoforming

Download Tech Data Sheets			FLAMMABILITY, SMOKE, & TOXICITY			AESTHETICS & DESIGN		
			FAR 25.853(a)	FAR 25.853(d)	ABD 0031/ BSS 7239	INTEGRAL COLOUR	DECORATIVE TEXTURE	HIGH IMPACT
SHEET INTEGRAL COLOUR	KYDEX® FST	↓	■	■	■	■		■
	KYDEX® FST03	↓	■	■	■	PEARLESCENT		■
	KYDEX® 7200ST	↓	■		■	■		■
	KYDEX® 6565HI	↓	■	■		■	■	■
	KYDEX® 6503	↓	■	■		PEARLESCENT	■	
	KYDEX® 6513	↓	■	■		PEARLESCENT		
	KYDEX® 5555HI	↓	■	■		■	■	■
	KYDEX® 110	↓	■			PEARLESCENT	■	■
	KYDEX® T-LW	↓	■			■	■	■
	KYDEX® T	↓	■			■	■	■
	KYDEX® 5555+SG	↓	■	■		■		
	KYDEX® T+SG	↓	■			■		■
SHEET ANTIMICROBIAL	KYDEX® T MB	↓	■			■	■	■
	KYDEX® 5555 MB	↓	■	■		■	■	
	KYDEX® T-ION	↓	■	■		■	■	■
	KYDEX® 5555HI-ION	↓	■	■		■	■	■
SHEET LIGHT TRANSMITTING	KYDEX® FST CLR	↓	■	■		CLEAR TRANSPARENT	■	
	KYDEX® FST CTL	↓	■	■		COLOUR TRANSLUCENT	■	
	KYDEX® 7115 LUMINA™	↓	■	■		LIGHT DIFFUSING		
RESIN INJECTION MOLDING	KYDEX® 6565IM	↓	■	■		■		■
	KYDEX® T-IM	↓	■			■		■



SEKISUI | KYDEX