

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.



Included: KYDEX® 6503

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.

Sustainability Initiatives

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



© JetBlue & Acumen Design
Pressure Formed KYDEX® 6565
with Infused Imaging™ Gradient Design

CUSTOMIZE YOUR JOURNEY

- | | | | |
|----|-------------------------|----|--------------------------|
| 02 | FEATURED PRODUCTS | 07 | SURFACE GRIP™ |
| 03 | BESPOKE TEXTURES | 08 | ANTIMICROBIAL TECHNOLOGY |
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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).

KYDEX® T

SOLID COLOUR

KYDEX® T-LW

SOLID COLOUR • LIGHT WEIGHT

KYDEX® 110

INTEGRAL PEARLESCENT

KYDEX® 7200ST

SOLID COLOUR
(Toxicity compliant)

 < 1 ft²
0.09 m²

P3 Texture on KYDEX®

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.



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)

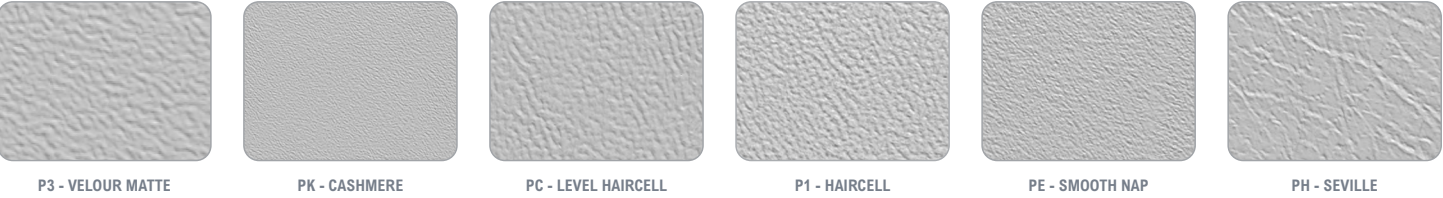
 > 2 ft²
0.18 m²

KYDEX® 6565 HI
KYDEX® 6513
KYDEX® 6503

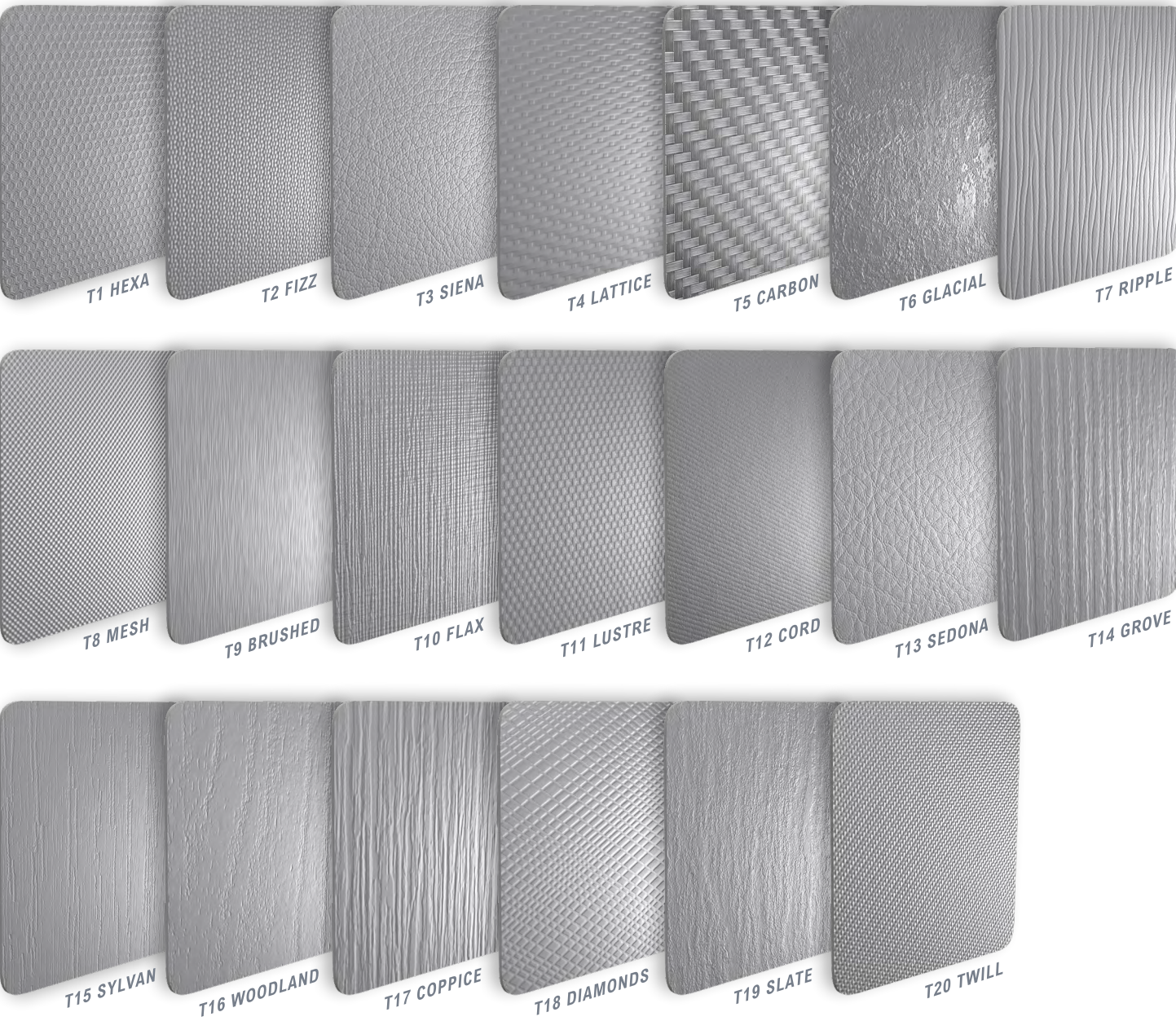
SEE PAGE 10 FOR FULL PRODUCT LIST

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



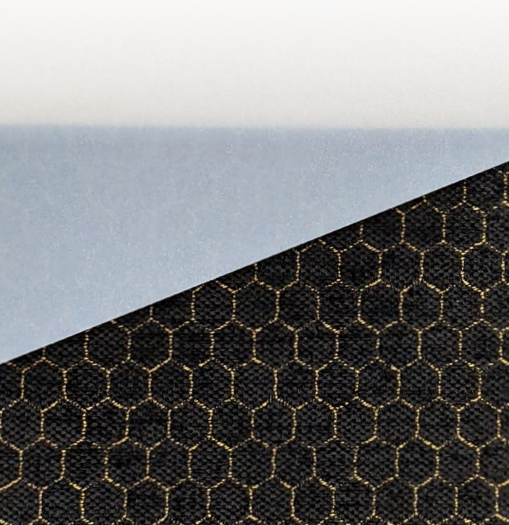
SEE AND BE SEEN.

KYDEX® Thermoplastics are developed to interact with light using integral colour, imagery, and texture.

KYDEX® 5115 ↓

FROST TRANSLUCENT

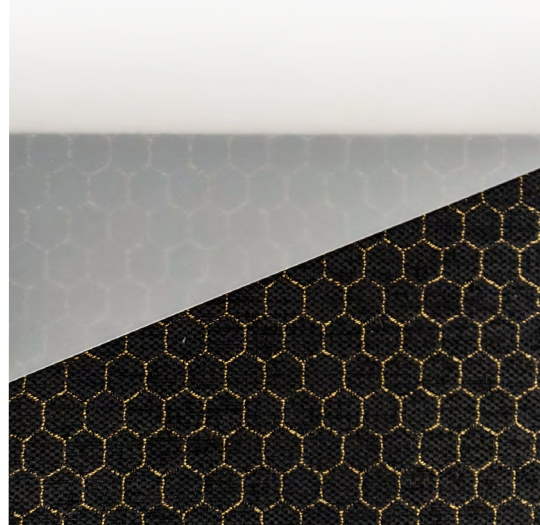
- Vertical Burn
Compliant: FAR 25.853 (a)



KYDEX® FST CTL ↓

COLOURED TRANSLUCENT

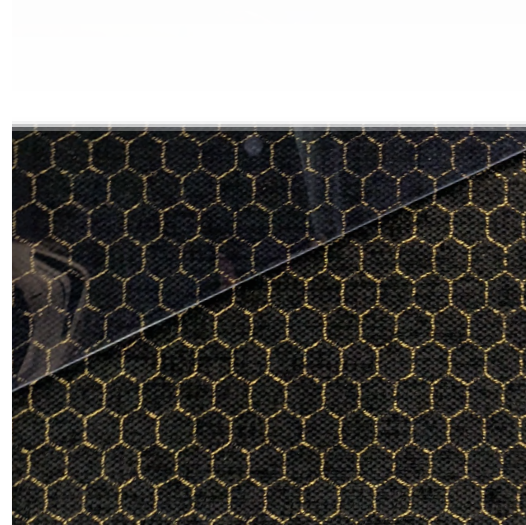
- Heat Release & Smoke Density
Compliant: FAR 25.853(a) & (d)
- Toxicity Compliant
(ABD 0031/BSS 7239)



KYDEX® FST CLR ↓

CLEAR

- Heat Release & Smoke Density
Compliant: FAR 25.853(a) & (d)
- Toxicity Compliant
(ABD 0031/BSS 7239)



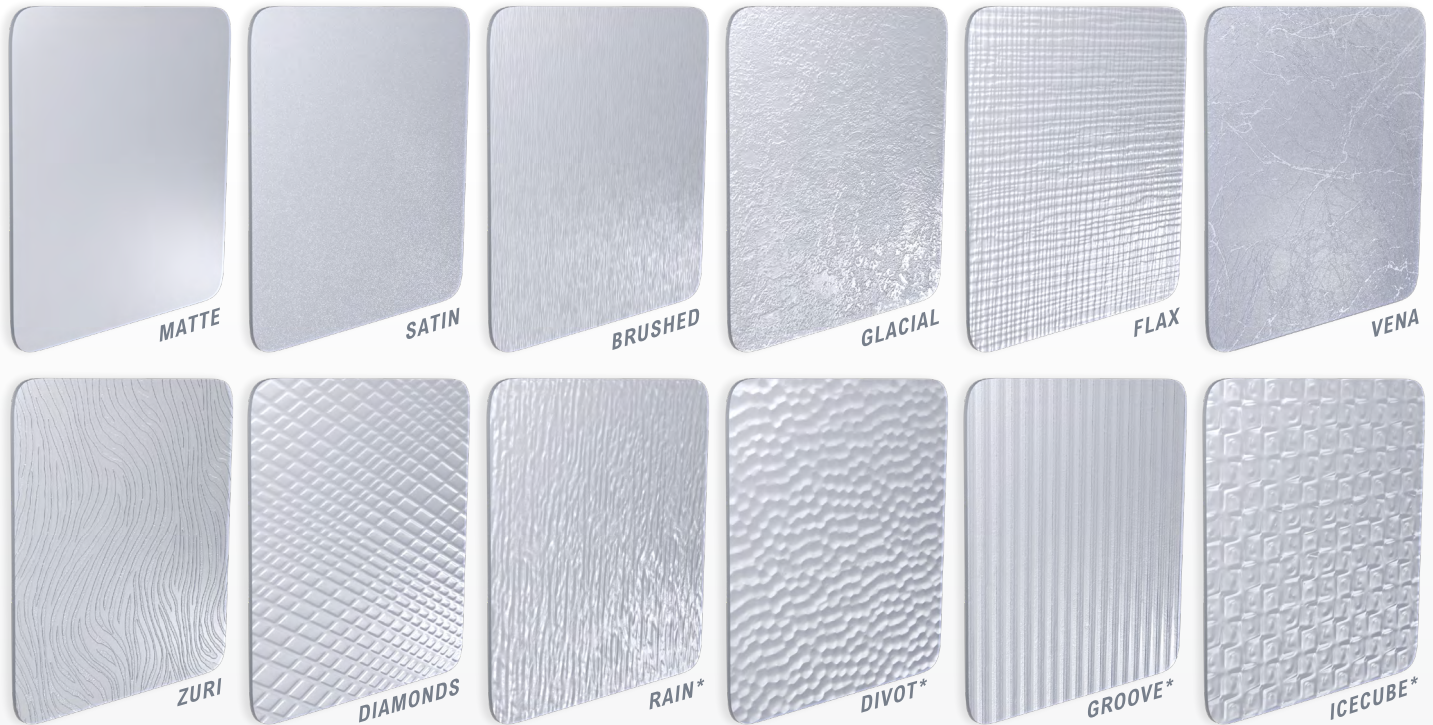
KYDEX® 7115 LUMINA™ BACK-LIT APPLICATIONS

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.



Provide passenger privacy with custom finished components using KYDEX® FST CLR. Enhance the effects of these translucent thermoplastics using texture and decorative patterns while maintaining chemical resistance and cleanability.

Textures



* Only available with one side textured in 0.125 in (3.175mm) thickness single panel or 0.250 in (6.35mm) thickness double panel

Translucent Colours

Customize your design with 27 translucent coloured films or a custom decorative insert. Mix and match colours, patterns, and texture for an endless array of possibilities.



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

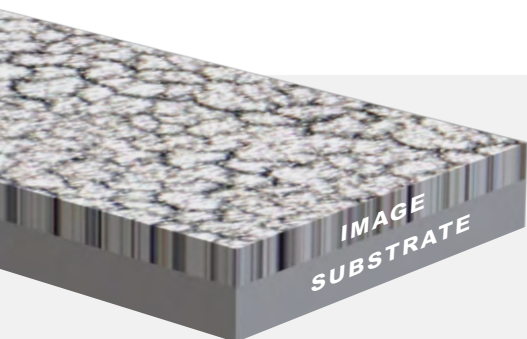
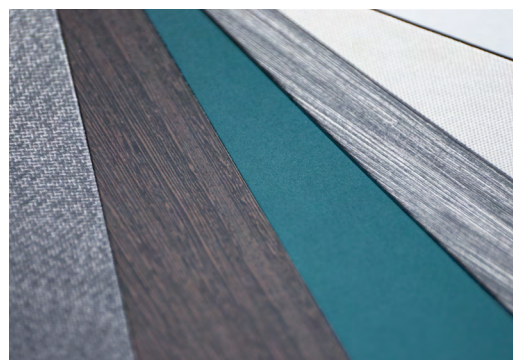
Not on it.



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

[HOW DOES IT WORK?](#)



© Adient Aerospace

surfaceGrip™

KYDEX® 5555+SG

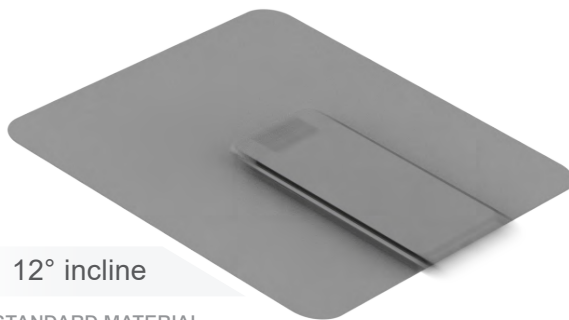
KYDEX® T+SG



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 ↓

- 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 ↓

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

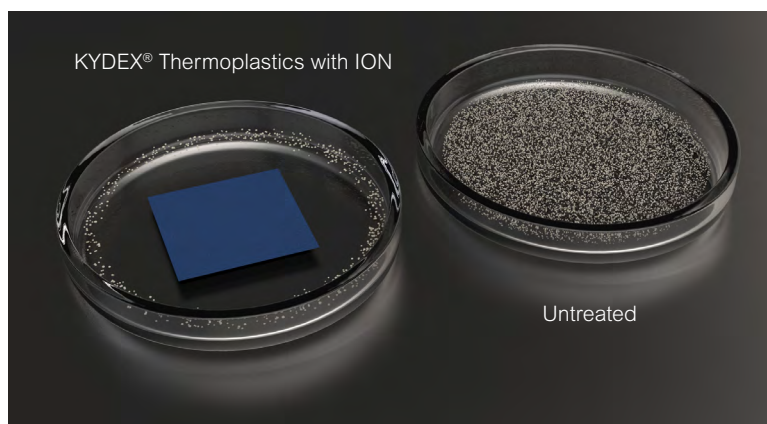
Antimicrobial MB

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.



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 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			HIGH IMPACT
			FAR 25.853(a)	FAR 25.853(d)	ABD 0031/ BSS 7239	INTEGRAL COLOUR	INTEGRAL PEARL	INFUSED IMAGING	
SHEET INTEGRAL COLOUR	KYDEX® FST	↓	■	■	■	■		■	
	KYDEX® FST03	↓	■	■	■	■		■	
	KYDEX® 7200ST	↓	■	■	■	■		■	
	KYDEX® 6565HI	↓	■	■		■		■	■
	KYDEX® 6503	↓	■	■		■	■	■	
	KYDEX® 6523HI	↓	■	■		■	■	■	■
	KYDEX® 6513	↓	■	■		■	■	■	
	KYDEX® 5555HI	↓	■	■		■		■	■
	KYDEX® 4545	↓	■	■		■		■	
	KYDEX® 110	↓	■			■	■	■	■
	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® 5115	↓	■			FROST TRANSLUCENT		■	
	KYDEX® 7115 LUMINA™	↓	■	■		LIGHT DIFFUSING		■	
RESIN INJECTION MOLDING	KYDEX® 6565IM	↓	■	■		■			■
	KYDEX® T-IM	↓	■			■			