



When We Collaborate... The Sky's the Limit.

The KYDEX® Thermoplastics brand is recognized by designers, engineers, and OEMs as a leader in specialty polymers for aviation interiors. From flight deck to tail, our complete portfolio provides fully-compliant materials with excellent mechanical properties and a refined degree of integral finish and color for an enhanced passenger experience. Our experts will guide you through material selection, design, and delivery.

Applications include:

- Seatbacks and Seat Components
- Sidewall Panels and Partitions
- Monuments and Lavatory Surfaces
- And More... wherever your imagination takes you

Why KYDEX® Thermoplastics?

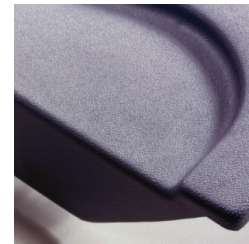
SEKISUI SPI was one of the first thermoplastic sheet manufacturers to develop materials for the specialized flame, smoke, and heat release requirements of commercial aviation interior components. We continue to challenge how to think, design, and create as a master supplier with our collaborative process, innovative R&D solutions, and exceptional technical support.

SEKISUI SPI's versatile, design-forward materials provide a wide range of options for a cohesive design and personalized fit and finish throughout the cabin. Integral color, effect, and imagery keep parts looking new, longer.

- Virtually limitless color possibilities
- Pearlescent and metallic effects
- Fully-compliant portfolio

Infused Imaging™ technology

Traditionally, images or patterns are achieved in a thermoplastic sheet by adding material to its surface, or by printing on the surface. Infused Imaging™ technology integrates custom design into the KYDEX® Thermoplastic sheet. The result is the ultimate in customization without the compromise of capped or printed solutions, which can chip or delaminate over time.



Our R&D, FSTLab™, designLab®, and appLab™ teams are ready to work with you to meet the industry's most challenging demands in these applications:

Seat components

Seatbacks, armrests, tray tables, IFE bezels, kick panels, partitions

Cabin components

Wall, ceiling, and kick panels, passenger service units, monuments, dividers

Lavatory surfaces

Galley surfaces and components



KYDEX® Thermoplastics for Aviation Interiors

A complete portfolio of fully-compliant thermoplastic sheets from flight deck to tail.

		Product	FAR 25.853 (a)	FAR 25.853 (d) Part IV	FAR 25.853 (d) Part V	AIRBUS ABD-0031	BOEING BSS-7239	Application
Infused Imaging™	Solid Integral Colour	KYDEX® FST Fully compliant, advanced polymer	■	■	■	■	■	Intended for applications where heat release, flame, smoke, & toxicity requirements are needed.
		KYDEX® 7200ST Smoke and toxicity compliant	■		■	■	■	Intended for applications where only flame, smoke, & toxicity requirements are needed (not heat release).
		KYDEX® 6565 Low heat release	■	■	■			Intended for passenger facing parts that need to meet flame, heat, & smoke requirements.
		KYDEX® 6565HI Low heat release, high impact	■	■	■			Intended for passenger facing parts that need to meet flame, heat, & smoke requirements. Specifically designed to help with applications that are sensitive to HIC requirements (Head Injury Criteria).
		KYDEX® 5555 Extreme-low heat release	■	■	■			Intended for passenger facing parts that need to meet flame, heat, & smoke requirements. Specifically designed to provide lower heat and smoke release values to support bonded build-up parts.
		KYDEX® 5555HI Extreme-low heat release, high impact	■	■	■			Intended for passenger facing parts that need to meet flame, heat, & smoke requirements. Specifically designed to provide lower heat and smoke release values to support bonded build-up parts and to help with applications that are sensitive to HIC requirements (Head Injury Criteria).
		KYDEX® 4545 Ultra-low heat release for bonded build-ups	■	■	■			Intended for passenger facing parts that need to meet even lower flame, heat, & smoke requirements. Specifically designed to provide lower heat and smoke release values to support bonded build-up parts.
		KYDEX® T Vertical burn compliant	■					Used in smaller parts that only need to meet flame requirements.
		KYDEX® T-LW 10% weight savings	■					A lighter weight version of KYDEX® T, used in smaller parts that only need to meet flame requirements.
Integral Effect	KYDEX® 6503 Pearlescent low heat release	■	■	■			Intended for passenger facing parts that need to meet flame, heat, & smoke requirements. Has an integral pearlescent effect.	
	KYDEX® 6523HI Pearlescent low heat release, high impact	■	■	■			Intended for passenger facing parts that need to meet flame, heat, & smoke requirements. Specifically designed to help with applications that are sensitive to HIC requirements (Head Injury Criteria). Has an integral pearlescent effect.	
	KYDEX® 6513 “FROST” low heat release	■	■	■			Intended for passenger facing parts that need to meet flame, heat, & smoke requirements. Has a “FROST” effect and transitional pigment.	
	KYDEX® 110 Vertical burn compliant	■					Used in smaller parts that only need to meet flame requirements. Has an integral metallic effect.	
Light Transmitting	KYDEX® 7115 Lumina™ Low heat release, compliant aviation sheet for backlit applications	■	■	■			Used for backlit panels and decorative accents in aviation interiors with our Infused Imaging™ technology to diffuse or disperse light to create effects. KYDEX® Lumina™ has contact clarity: one cannot see through it unless it is illuminated from behind or in a well-lit space.	

Connect with SEKISUI SPI

Given the scale and complexity of aviation interior projects, we understand you can't afford to waste time or material. We are here to help with our high-performance thermoplastics, and our knowledgeable and collaborative team of experts.

Reimagine the possibilities, call **800.325.3133** or email us at info@sekisui-spi.com today!

