

# surfaceGrip™

KYDEX® 5555+SG  
KYDEX® T+SG

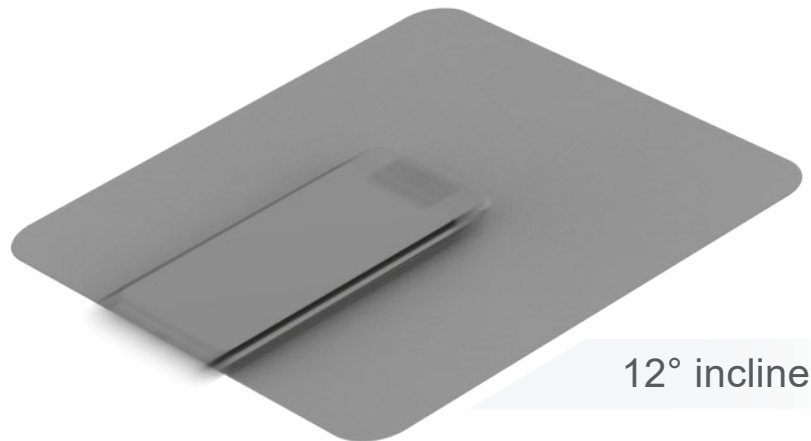


25° incline

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

[CLICK TO WATCH VIDEO](#)

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.



12° incline

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



InfusedImaging™

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

Not on it.

# surfaceGrip

## Maintains Properties

Mechanical properties, durability, and longevity

## Design Benefits

Possibilities are virtually limitless



## Physical Properties *Mechanical and surface characteristics*

### MECHANICAL PROPERTIES

**KYDEX® surfaceGrip™ technology does not affect the mechanical properties of the base material.**

There is no change in the polymer formulation of aviation grade KYDEX® Thermoplastics.

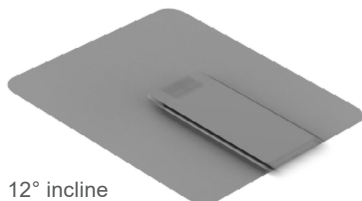
### ANTI-SLIP PROPERTIES

**surfaceGrip™ technology keeps your items in place.**

By increasing the coefficient of friction of KYDEX® Thermoplastics.



25° incline



12° incline

	Coefficient of Friction	
	Static Friction	Dynamic Friction
KYDEX® Thermoplastic Sheet +SG	0.43 - 0.53	0.35 - 0.44
KYDEX® Thermoplastic Sheet	0.10 - 0.14	0.032 - 0.058

### What does this mean for your items?

surfaceGrip™ technology will hold items, like a phone, in place when the surface is at a 25° incline, compared to a 12° incline for surfaces without surfaceGrip™ technology.

## Part Geometry *Considerations*

### DEPTH - PART COMPLEXITY

**surfaceGrip™ is ideal for flat and simple geometries.**

surfaceGrip™ technology is intended for flat inlays and simple geometries, like drape formed parts.

As with any material, during the process of drawing the sheet, it will stretch and thin the surfaceGrip™ layer. Excessive thinning will affect the anti-slip and tactile characteristics.

Ideally, the depth of draw should be less than 1" (25.4mm).



### RECOMMENDED:



## Questions?

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## Maintains Properties

Mechanical properties, durability, and longevity

## Design Benefits

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## Physical Properties *Flammability and other requirements*

### FLAMMABILITY



Flammability tests conducted with surfaceGrip™ pass with flying colours.

SEKISUI KYDEX's appLab™ commissioned flammability testing for several sheets of KYDEX® Thermoplastic sheet by an accredited third party lab. The results within the table below illustrate select aviation grades of KYDEX® Thermoplastic sheet with surfaceGrip™ maintains FAR 25.853 compliance.

SEKISUI KYDEX encourages our partners and customers to conduct their own tests to determine the suitability of each product for their particular purposes.

	60 second Vertical Burn FAR 25.853(a)(i)			Ohio State Heat Release FAR25.853(d) Part IV		Smoke Density FAR 25.853(d) Part V	Pass/Fail
	Burn Time (sec)	Burn Length (in)	Longest Burning Particle (sec)	2 min total	Peak HR	Ds@ 4.0m	-
KYDEX® T +SG	0	3.0	None	N/A	N/A	N/A	Pass
KYDEX® T	0	2.8	None	N/A	N/A	N/A	Pass
KYDEX® 5555 +SG	0	3.3	None	58	50	159	Pass
KYDEX® 5555	0	3.2	None	45	43	111	Pass

### CHEMICAL STAIN RESISTANCE



surfaceGrip™ has best in-class chemical and stain resistance.

This technology offers enhanced chemical and stain resistance compared to competitive anti-slip, tactile technologies on the market.

Prolonged exposure to some aggressive chemical and staining agents may cause some discoloration or staining, however this may be mitigated by when selecting the substrate colour, and limiting exposure time.

Reagent	Color	EXPOSURE TIME			
		24 hr	48 hr	72 hr	7 day
Coca-Cola	Light	No Effect	No Effect	No Effect	No Effect
	Dark	No Effect	No Effect	No Effect	No Effect
Red Wine	Light	No Effect	Slight Discoloration	Slight Discoloration	Slight Discoloration
	Dark	No Effect	No Effect	No Effect	No Effect
Whiskey	Light	No Effect	No Effect	No Effect	No Effect
	Dark	No Effect	No Effect	No Effect	No Effect
Ketchup	Light	No Effect	Slight Discoloration	Stained	Stained
	Dark	No Effect	No Effect	No Effect	No Effect
Mustard	Light	Slight Discoloration	Stained	Stained	Stained
	Dark	No Effect	No Effect	No Effect	Slight Discoloration
Celeste® Biozyme EX3	Light	No Effect	No Effect	No Effect	No Effect
	Dark	No Effect	No Effect	No Effect	No Effect
Celeste® Interior Cleaner	Light	No Effect	No Effect	No Effect	No Effect
	Dark	No Effect	No Effect	No Effect	No Effect
Celeste® Sani-Cide EX3	Light	No Effect	Slight Discoloration	Slight Discoloration	Slight Discoloration
	Dark	No Effect	Slight Discoloration	Slight Discoloration	Slight Discoloration
Celeste® Sani-Cide FSC	Light	No Effect	No Effect	No Effect	No Effect
	Dark	No Effect	No Effect	No Effect	No Effect
McGean Honey Bee™ 90	Light	No Effect	Slight Discoloration	Slight Discoloration	Slight Discoloration
	Dark	No Effect	Slight Discoloration	Slight Discoloration	Slight Discoloration

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