

The image features a large, stylized graphic of an aircraft interior. On the left, a grey and blue geometric shape represents a section of the fuselage. On the right, a row of red leather seats with grey armrests is shown. In the upper center, several grey, three-dimensional plastic components, likely for seats or bulkheads, are displayed against a blue background.

For production of
high-performance
aircraft interior
components.

KYDEX® sheet is offered in an expanded range of high performance grades that meet the demanding requirements of aircraft interior applications.

KYDEX® sheet is available with aviation ratings including FAR 25.853(a) and FAR 25.853(d) as well as ABD0031 and D6-51377 making it fully compliant for Boeing and Airbus flame-smoke-toxicity requirements. It provides the physical, chemical and aesthetic properties needed to improve the durability and appearance of aircraft interiors:

- Extreme chemical resistance: withstands harsh cleansers with no staining, fading, cracking or crazing
- Extreme formability, hot tear strength and the ability to maintain uniform wall thickness
- Outstanding impact resistance, modulus of elasticity, tensile strength, hardness and heat deflection temperature
- Thicknesses from 0.71mm-12.70mm (0.028"-0.500"), multiple surface textures, over 3,500 custom colours, realistic wood grains, metallics and custom patterns
- Low minimum order quantities for custom colours
- Available with Microban® antimicrobial product protection

In addition to thermoforming, KYDEX® sheet is suitable for laminating, fabricating and machining, making it the ideal material from which to create a broad variety of flat and three-dimensional aircraft components including:

- Seat parts
- Bulkhead laminates
- Monitor shrouds
- Window shades
- Tray tables
- And more!

KYDEX
THERMOPLASTIC SHEET

Durability By Design®

KYDEX

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KYDEX® sheet grades for production of high-performance aircraft interior components

Below is a listing of KYDEX® sheet grades rated for aircraft interior applications. For a comprehensive listing and updated documentation please visit www.kydex.com or contact a KYDEX representative.

	<i>Izod Impact Resistance</i> at 22.8°C (73°F) (ASTM-D256)	<i>Modulus of Elasticity</i> (ASTM D-790)	<i>Tensile Strength</i> (ASTM D-638)	<i>Rockwell Hardness</i> (R scale) (ASTM D-785)	<i>Heat Deflection Temp</i> @ 1.82MPa (264 psi) (annealed) (ASTM D-648)	<i>Thicknesses</i>	<i>FAR 25.853 (a)</i> Aircraft Fire Rating	<i>FAR 25.853 (d)</i> Aircraft Fire Rating	<i>ABD 0031, D6-51377</i> Smoke Toxicity	<i>Relative Price Index*</i>
NEW PRODUCT										
KYDEX® FST Meets all fire retardancy requirements set forth in FAR 25.853 paragraphs (a) and (d) and flame-smoke-toxicity requirements in ABD0031 and D6-51377.	163.2 J/m (2.4 ft-lbs/in)	2,320 MPa (362,000 psi)	74 MPa (10,400 psi)	125	120.5° C (249° F) unannealed	1.0 mm (0.04") to 4.0 mm (0.157")	●	●	●	■ ■ ■ ■ ■ ■ ■ ■ ■ ■
KYDEX® 6565 Meets all fire retardancy requirements set forth in FAR 25.853 paragraphs (a) and (d). Integral solid colours.	53-160 J/m (1-3 ft-lbs/in)	2,896 MPa (420,000 psi)	45 MPa (6500 psi)	98	78.3° C (173° F)	0.70mm (0.028") to 6.40 mm (0.250")	●	●		■ ■ ■ ■ ■ ■ ■ ■ ■ ■
DECORATIVE										
KYDEX® 6565(d) Decorative sheet which meets all fire retardancy requirements set forth in FAR 25.853 paragraphs (a) and (d).	53 J/m (1 ft-lbs/in)	3833 MPa (556,000 psi)	43 MPa (6,200 psi)	111	75.9° C (169° F)	1.00 mm (0.040") to 6.40 mm (0.250")	●	●		■ ■ ■ ■ ■ ■ ■ ■ ■ ■
KYDEX® 5555 Meets all fire retardancy requirements set forth in Federal Aviation Regulations 25.853 paragraphs (a) and (d) including low heat release (65/65) in the OSU rate of heat release test. Integral solid colours.	53 J/m (1 ft-lbs/in)	3833 MPa (556,000 psi)	43 MPa (6,200 psi)	111	75.9° C (169° F)	0.70 mm (0.028") to 6.40 mm (0.250")	●	●		■ ■ ■ ■ ■ ■ ■ ■ ■ ■
ANTIMICROBIAL										
KYDEX® 5555 MB Infused with Microban® antimicrobial protection. Meets all fire retardancy requirements in Federal Aviation Regulations 25.853 paragraphs (a) and (d) including low heat release (65/65) in the OSU rate of heat release test.	53 J/m (1 ft-lbs/in)	3833 MPa (556,000 psi)	43 MPa (6,200 psi)	111	75.9° C (169° F)	0.70 mm (0.028") to 6.40 mm (0.250")	●	●		■ ■ ■ ■ ■ ■ ■ ■ ■ ■
KYDEX® 6185 Meets the governmental vertical burn requirements under FAR25.853(a). Offers improved heat distortion temperature (HDT) for higher in-service temperatures. Integral solid colours.	267 J/m (5 ft-lbs/in)	2,241 MPa (325,000 psi)	44 MPa (6400 psi)	104	90.6° C (195° F)	0.70mm (0.028") to 6.40 mm (0.250")	●			■ ■ ■ ■ ■ ■ ■ ■ ■ ■
KYDEX® 110 Meets an FAR 25.853(a) fire rating. Integral metallic colours.	128 J/m (2.4 ft-lbs/in)	2,450 MPa (356,000 psi)	45 MPa (6500 psi)	94	73.9° C (165° F)	0.70 mm (0.028") to 9.60 mm (0.375")	●			■ ■ ■ ■ ■ ■ ■ ■ ■ ■
KYDEX® 100 Meets an FAR 25.853(a) fire rating. Integral solid colours.	961 J/m (18 ft-lbs/in)	2,310 MPa (335,000 psi)	42 MPa (6100 psi)	94	78.3° C (173° F)	0.70mm (0.028") to 12.70 mm (0.500")	●			■ ■ ■ ■ ■ ■ ■ ■ ■ ■
KYDEX® T Cost competitive with fire retardant ABS/PVC (FR-ABS) formulations but exhibits significantly higher impact strength and extensibility. Meets FAR 25.853(a). Integral solid colours.	801 J/m (15 ft-lbs/in)	2,480 MPa (360,000 psi)	42 MPa (6100 psi)	94	75.6° C (168° F)	0.70mm (0.028") to 12.70 mm (0.500")	●			■ ■ ■ ■ ■ ■ ■ ■ ■ ■
DECORATIVE										
KYDEX® T MC Decorative sheet that meets all fire retardancy requirements set forth in FAR 25.853(a).	801 J/m (15 ft-lbs/in)	2,480 MPa (360,000 psi)	42 MPa (6100 psi)	94	75.6° C (168° F)	1.00mm (0.040") to 4.80 mm (0.187")	●			■ ■ ■ ■ ■ ■ ■ ■ ■ ■

*Scale from 1 - 5. 1=lowest and 5=highest.