



## Kleerdex Company

## KYDEX® 6565 LOW HEAT RELEASE AVIATION GRADE

Kydex 6565 is specifically formulated to meet the fire safety needs of the aviation industry.

### GENERAL INFORMATION

Kydex 6565 is a proprietary, high performance acrylic/PVC thermoplastic sheet that meets all fire retardancy requirements set forth in Federal Aviation Regulations 25.853 paragraphs (a) and (d) (old(c)) including low heat release (<65/65) in the OSU rate of heat release test. It's excellent properties make it the ideal material to form two and three dimensional aircraft components.

### SUGGESTED END-USES

- Airducts
- Bulkhead laminates
- Gallery Parts
- Laboratory floorplans
- Life vest shrouds
- Seat parts
- Escape slide packboards
- Instrument panels
- Sidewall panels
- Window reveal

### FEATURES

Kydex 6565 is available in over 200 developed colors, eight surface textures, and thicknesses from 0.028" (.71mm) and up enabling you to satisfy both the functional and aesthetic requirements of any mass transit vehicle interior.

Kydex 6565 is very resistant to a wide range of concentrate chemicals, and is therefore eat to clean with aggressive cleaners such as Soft Scrub, Fantastic, and citrus-based cleaners such as Citri Kleen. Ammoniated cleaners should be avoided since they can leave a residue.

Most importantly, Kydex 6565 meets the stringent requirements of the FAR 25.853 paragraph (d) (replaces para. c), in all thicknesses and colors.

### FABRICATION

Kydex 6565 forms to deep draws with low forces when heated to the upper end of the proper forming temperature range. Crisp detail is achieved and rejects are minimized.

Kydex 6565 sheet can be formed on all standard presses, and cut on all standard die-cutting machines.

PROPERTY	TEST METHOD	TYPICAL VALUE <sup>1</sup>
Specific Gravity	ASTM D-792	1.46-1.49
Tensile Strength, psi (MPa)	ASTM D-638	6,500 (45)
Elongation at Break, %		55
Flexural Strength, psi (MPa)	ASTM D-790	10,000 (70)
Modulus / Elasticity, psi (MPa)		420,000 (2896)
Rockwell Hardness, R	ASTM D-785	98
Dynatup, 73 F, ft-lbs (J)	Max Energy	5.34 (7.24)
	Cumulative	96.36 (130.65)
Heat Deflection Temperature, HDT, @264psi (1.8MPa), annealed, °F (C°)	ASTM D-648	173° (78°)
Radiant Panel	ASTM E-162	Pass
Motor Veh. Sfty. Std.	MVSS 302	Pass
FAA Vertical Burn	FAR 25.853 a	Pass
FAA NBS Smoke Density	FAR 25.853 d	3.99
FAARate of HeatRelease	FAR 25.853 d	< 65/65
Forming Temperature, °F (°C)		325 - 390 (163-200°C)

<sup>1</sup> All values based on 0.125" (3.12mm) sheet unless otherwise specified.

<sup>2</sup> Not intended for specification purposes.