PRODUCT INFORMATION

Kydex®

Acrylic-Polyvinyl Chloride

Kydex® is available in a variety of colors & patterns.

Full Sheet: 48"x96" (.028" through 0.25" thick)

Description and Overview

Kydex® is a durable, thermoformable sheet that combines properties of both acrylic and PVC. Kydex® is easy to fabricate and vacuum form using conventional methods and equipment. Kydex® also features excellent resistance to breakage, chemicals and fire, meeting many aerospace and building code specifications.

Due to superior formability, Kydex® is an ideal choice for equipment housings as well as aircraft and transportation interiors.

Applications and Uses

Kydex® applications range from medical equipment, transit, automotive, building and aviation interiors, to furniture and fixtures. Kydex® can be used as protection from electrical shock and has equipment housing applications for tools including electrical welders that require durability and high impact strength. Kydex® is also used in the orthotic industry for braces.

Due to the material's formability and scratch resistance, Kydex® is often used to manufacture thermoformed gun holsters and knife sheaths.

- Aircraft interiors
- Mass-transit vehicle interior components
- Equipment housings
- Medical products
- Gun holster and knife sheaths
- Flat, laminated panels
- Kick plates and push plates
- Exhibits and kiosks

Properties and Specifications

Property	Kydex®
Specific Gravity	1.35
Tensile Strength (psi)	6,100
Elongation at Break	110%
Modulus of Elasticity (psi)	360,000
Izod Impact, Notched	15 ft-lbs/in.
Rockwell Hardness	R94
Heat Deflection @ 265psi	168F
Flammability	UL94, V-0, 5V
FAA Compliance	Pass
Forming Temperature	290°-325° F
Affixable Properties	Chem / Mech

Properties are typical.
Chem is an abbreviation for chemically affixed with glues, chemicals or adhesives.
Mech is an abbreviation for mechanically affixed bonding.
Field testing is recommended for any application.

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