



## Kleerdex Company

## KYDEX® 550 WEATHERABLE MONOLITHIC SHEET

A monolithic weatherable acrylic/PVC sheet with superior formability, chemical and impact resistance, and fire retardancy

### GENERAL INFORMATION

Unlike competitive weatherable sheet grades, super tough Kydex 550 acrylic/PVC alloy is a monolithic sheet eliminating the problems often associated with capped sheet products. This high performance thermoplastic sheet is available in gauges from 0.028" (.71mm) and up and in eight distinctive textures. It is available in limited light colors. Impact resistance is 15 ft-lbs/in (801 J/m).

### SUGGESTED END-USES

- Housings for equipment
- Recreational vehicles and truck parts
- Safety equipment
- Building Products
- Signage

### FEATURES

Kydex 550 offers the properties of "Kydex" in a weatherable formulation.

Kydex 550 sheet is highly impact resistant as measured by the notched izod impact resistance test with typical values of 15 ft-lbs/in (801 J/m), higher than most other thermoplastics.

Kydex 550 is fire retardant (self-extinguishing) with a UL 94 V-0 rating as measured by an independent testing laboratory.

Kydex 550 is available in seven colors: Light Gray (52120), Polar White (62000), Ivory (62015), Snowflake (62029), Natural (62059), White (62067), and Beige (72005).

### FABRICATION

Excellent forming properties result in uniform wall thicknesses and crisp detail, plus easy machining and fabricating using conventional methods, further expanding finished part possibilities.

PROPERTY	TEST METHOD	TYPICAL VALUE <sup>1</sup>
Specific Gravity	ASTM D-792	1.38 - 1.40
Tensile Strength, psi (MPa)	ASTM D-638	6,100 (42)
Elongation at Break, %		110
Flexural Strength, psi (MPa)	ASTM D-790	9,300 (64)
Modulus of Elasticity, psi (MPa)		340,000 (2344)
Rockwell Hardness, R	ASTM D-785	93
Notched Izod Impact Resistance, 73°F (23°C),ft-lbs/in (J/m)	ASTM D-256	15 (801)
Heat Deflection Temperature, HDT, @264psi (1.8 MPa), annealed,°F (°C)	ASTM D-648	175° (78°)
Flammability Resistance <sup>2</sup>	UL Standard 94 (Independent Lab)	V-0
Mold Shrinkage, %		0.4 - 0.6
Forming Temperature, F (C)		325°-390° (162°-200°)

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

<sup>2</sup>All gauges from 0.028" (.71mm) and greater. Not intended for specification purposes.