



Kleerdex Company

KYDEX® 101 THERMOPLASTIC SHEET FOR SIGNAGE

Capped sheet for electrical sign applications that require a UL compliance. Eliminates painting required with other materials.

GENERAL INFORMATION

Kydex 101 is an acrylic/PVC sheet capped with a weatherable cap for applications such as electrical signs requiring UL compliance. This sheet is recognized by UL to meet UL Std 746C and UL Std 94 V-0. Since the substrate is white, it eliminates the need for painting which is required with other thermoplastics and with metal. It has outstanding thermformability, impact resistance, weatherability, and machinability.

SUGGESTED END-USES

- Sign applications
- Radomes
- Other applications where a weatherable color over a white substrate is desirable.

FEATURES

RIGIDITY - Kydex 101 is more rigid than most other thermoplastics resulting in parts that will deform less when loaded.

BREAKAGE RESISTANCE - With Notched Izod impact resistance of 18 ft-lbs/in (953 J/m), Kydex 101 offers unsurpassed resistance to breakage.

WEATHERABILITY - The cap offers excellent weatherability for use in outdoor applications.

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 ¹
Specific Gravity	ASTM D-792	1.35
Tensile Strength, psi (MPa)	ASTM D-638	6,100 (42)
Elongation at Break, %		160
Flexural Strength, psi (MPa)	ASTM D-790	9,300 (64)
Modulus / Elasticity, psi (MPa)		335,000 (2319)
Rockwell Hardness, R	ASTM D-785	94
Notched Izod Impact Resistance, 73°F (23°C),ft-lbs/in (J/m)	ASTM D-256	18 (953)
Heat Deflection Temperature, HDT, @264psi (1.8MPa),annealed,°F (°C)	ASTM D-648	173° (78°)
Flammability Resistance ²	UL Standard 94	V-0, 5V
Forming Temperature F (C)		325°-390° (162°-200°)

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

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