datasheet

KYDEX® 101

THERMOPLASTIC SHEET FOR SIGNAGE

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

GENERAL INFORMATION:

KYDEX 101 is a proprietary alloy sheet capped with a weatherable cap for applications such as electrical signs requiring UL compliance. This sheet is recognized by UL as meeting UL Std 746C and UL Std 94 V-0, 5V. Since the substrate is white, it eliminates the need for painting the inside of sign cans, which is required with other thermoplastics and with metal. It offers outstanding thermoformability, impact resistance, weatherability, and machinability.

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.

THERMOFORMABILITY – Excellent forming properties result in uniform wall thicknesses and crisp detail. Machining and fabricating can be easily done with conventional methods; further expanding finished part possibilities.

RIPH- KYDEX is endorsed by the Royal Institute of Public Health for conformance to the standard of Hygienic Merit

Property	Test Method	Typical Value[1]
Specific Gravity	ASTM D-792	1.35
Tensile Strength	ASTM D-638	6,100 psi 42 MPa
Flexural Strength	ASTM D-790	9,300 psi 64 MPa
Modulus of Elasticity	ASTM D-790	335,000 psi 2,310 MPa
Notched Izod Impact Resistance, @ 73°F (23°C)	ASTM D-256	18 ft-lbs./in 953 J/m
Heat Deflection Temperature(HDT) @264psi(1.82Mpa) annealed	**ASTM D-648**	173°F 79°C
Flammability: Underwriters Lab. Component Recognition	UL94[2] **UL746C**	V-0,5V[3] Pass[3]
Forming Temperature		325-390°F 163-200°C

[1] All values based upon .125" (3.175mm) sheet unless otherwise specified.
[2] Underwriter's Laboratories Inc., File E115252.
[3] All gauges .028" (0.71mm) and above.
Not intended for specification purposes.

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