MODERN plastics
"Setting the Standards in Plastics Distribution"™
ISO 9001:2000 Certified
678 Howard Ave.
Bridgeport, CT 06605
National Toll Free: 800.243.9696

KYDEX ®

T

HIGH IMPACT FIRE-RATED SHEET

Offering superior performance in formability, rigidity, impact resistance, fire retardance, and chemical resistance.

General Information

Kydex T is a proprietary acrylic/PVC thermoplastic sheet that is cost competitive with fire retardant ABS/PVC (FR-ABS) formulations but with significantly higher impact strength and extensibility. Unlike FR-ABS, because Kydex T is less hygroscopic, Kydex T typically does not require pre-drying; offers superior impact resistance (15 ft-lbs/in); more uniform forming with less wall thinning; and offers significantly greater resistance to a broad range of corrosive chemicals and cleaning solutions. It is available in a wide range of aesthetic choices and is UL Â® recognized Std 94 V-0/5V.

Features

Kydex T is formulated to substitute for FR ABS sheet with competitive pricing but superior cost/performance.

Kydex T has higher breakage resistance as measured by the Notched Izod test than competitive thermoplastics.

Kydex T is available in eight gauges from 0.028" (0.71 mm) and up, in nine textures, a large variety of colors, custom blank sizes, and very low minimums.

Kydex T is among the most rigid of thermoforming materials, with a modulus of elasticity of 360,000 psi.

THERMOFORMABILITY : Kydex T is easy to form with excellent part definition and deep-draw characteristics. It forms with similar forming times to FR-ABS making it easy transition from competitive products.

ELECTRICAL PROPERTIES : Kydex T exhibits a Dielectric Constant of 2.76 @ 1 MHz, 2.53 @800 MHz, and 2.51 @1.9 GMz.

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, psi	ASTM D-638	6,100 psi (42 MPa)
Elongation %	ASTM D-638	110
Flexural Strength	ASTM D-790	9,600 psi (66 MPa)
Modulus of Elasticity, psi	ASTM D-790	360,000 psi (2482 MPa)
Notched Izod Impact Resistance @ 73 ° ft-lbs/in.	ASTM D-256	15 ft-lbs/in (801 J/m)
Rockwell Hardness(R Scale)	ASTM D-785	94
Heat Deflection Temperature, HDT, @ 264 psi, annealed °	ASDTM D-648	168° (75.5°)
Flammability: Underwriter's Lab. Component Recognition	UL Standard 94 [2]	V-0, 5V [3]
Federal Aviation Administration	FAR 25.853 (a)	Pass [3]
BS 476 Part 6		Class 0 (2mm)
BS 476 Part 7		Class 1 (.7 & 2.0mm)
EC 95/28/EG		Pass (1-6mm)
DIN 5510-2		.7mm (S4,ST2,SR2) 6.2mm (S4,ST2,SR1)
M1 Test		M1 (.7mm) M2 (3.2-6.4mm)

[1] All Values are based upon 0.125" (3.12 mm) sheet unless otherwise specified.
[2] Underwriter's Laboratories Inc., File E115252
[3] All Gauges 0.028" (0.711 mm) and above.
*The thicknesses are added.
Not intended for specification purposes.

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