



"Setting the Standards in Plastics Distribution"<sup>TM</sup>

ISO 9001:2000 Certified

678 Howard Ave.

Bridgeport, CT 06605

National Toll Free: 800.243.9696

## KYDEX ®

### T

#### HIGH IMPACT FIRE-RATED SHEET

##### 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

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

Property	Test Method	Typical Value <sup>1</sup>
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 <sub>2</sub>	V-0 <sub>3</sub> 5V
Federal Aviation Administration	FAR 25.853 (a)	Pass <sub>3</sub>
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)

<sup>1</sup> All Values are based upon 0.125" (3.12 mm) sheet unless otherwise specified.

<sup>2</sup> Underwriter's Laboratories Inc., File E115252

<sup>3</sup> All Gauges 0.028" (0.711 mm) and above.

\*The thicknesses are added.

Not intended for specification purposes.



"Setting the Standards in Plastics Distribution"<sup>TM</sup>

ISO 9001:2000 Certified

678 Howard Ave.

Bridgeport, CT 06605

National Toll Free: 800.243.9696

Because we cannot anticipate or control the many different conditions under which this information and our products may be used, we do not guarantee the applicability of the accuracy of this information or the suitability of our products in any given situation. Users of our products should make their own tests to determine the suitability of each product for their particular purposes. THE PRODUCTS DISCUSSED ARE SOLD WITHOUT WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, EITHER EXPRESSED OR IMPLIED, EXCEPT AS PROVIDED IN OUR STANDARD TERMS AND CONDITIONS OF SALE, and buyer assumes all responsibility for loss or damage arising from the handling and use of our products, whether done in accordance with directions or not. In no event shall the supplier or the manufacturer be liable for incidental or consequential damages. Also, statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent. Kydex® is a registered trademark of Kleeindex Company. ©2001 Kleeindex Company.