HIGH IMPACT FIRE-RATED SHEET

Fire retardant thermoplastic sheet for general thermoforming. Outperforms FR-ABS at comparable cost.

GENERAL INFORMATION:

KYDEX T is a proprietary 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; 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® recognized Std 94 V-O/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 .028" (0.71mm) 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 (2482 MPa).

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.

Property	Test Method	Typical Value ¹
Specific Gravity	ASTM D-792	1.35
Tensile Strength	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	ASTM D-790	360,000 psi
Elasticity		2482 MPa
Notched Izod		
Impact	ASTM D-256	15 ft-lbs/in
Resistance,		801 J/m
@ 73°F (23°C)		
Rockwell		
Hardness	ASTM D-785	94
(R Scale)		
Heat Deflection		
Temperature	10TH D 640	168°F
(HDT) @ 264psi	ASTM D-648	75.5°C
(1.8MPa)		
annealed		
Flammability:		
Underwriter's	UL Standard 94 ²	$V-0,5V^3$
Lab. Component Recognition		
Federal Aviation		
Administration	FAR 25.853(a)	Pass ³
Auministration	105" (2.175	\

¹All values based upon .125" (3.175mm) sheet unless otherwise specified.

Kleerdex Company Customer Service

Aiken, SC 29802

800-325-3133 or 803-642-6864 FAX: 803-642-6867 or 800-452-0155

www.kydex.com

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 PROVIDE IN OUR STANDARD TERMS AND CONDITIONS OF SALE, and buyer assumes all responsibility for loss or damage arising from the handling and use or 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 Kleerdex Company. ©2001 Kleerdex Company.

²Underwriter's Laboratories Inc., File E115252

³All gauges .028" (0.71mm) and above. Not intended for specification purposes.