HIGH IMPACT FIRE RATED SHEET

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

GENERAL INFORMATION:

Super tough, durable KYDEX 100, a proprietary alloy sheet, brings new dimensions to thermoformers in: formability, rigidity, breakage resistance, chemical resistance and fire retardancy. This high performance thermoplastic sheet is available in a wide range of standard and customer colors, textures, and sheet sizes. It is Underwriters Laboratories, Inc.® recognized for UL Std 94 V-0/5V and UL 746C and has 18 ft-lbs./in (953 J/m) Notched Izod impact resistance.

FEATURES:

<u>SUPERIOR FORMABILITY</u> – For deep or hard to form parts or where good finished detail is required. KYDEX 100 is unsurpassed.

RIGIDITY – KYDEX 100 is more rigid than most other thermoplastics resulting in parts that will deform less when loaded.

<u>BREAKAGE RESISTANCE</u> – With a high Notched Izod impact resistance, KYDEX 100 offers unsurpassed resistance to breakage.

<u>CHEMICAL RESISTANCE</u> – KYDEX 100 meets the highest standard for chemical resistance for thermoplastic materials.

FIRE RETARDANCE – KYDEX is recognized by Underwriter's Laboratories, Inc.® for Standard 94 V-O and 5V and UL 746C in all gauges and colors.

THERMOFORMABILITY – Excellent forming properties results in uniform wall thicknesses and crisp detail, plus easy machining and fabricating using conventional methods, further expanding finished part possibilities.

ELECTRICAL PROPERTIES – KYDEX 100 exhibits a D 565 V/mil and a Dielectric Constant of 3.13 @1000 2.46 @800MHz, 2.42 @1.9 GHz, 2.67 @ 5GHz, ar

Property	Test Method	Typical Value ¹
Specific Gravity	ASTM D-792	1.35
Tanaila Ctranath	ASTM D-638	6,100 psi
Tensile Strength		42 MPa
Elongation, %	ASTM D-638	160
Flexural Strength	ASTM D-790	9,100 psi
		63 MPa
Modulus of	ASTM D-790	335,000 psi
Elasticity		2310 MPa
Notched Izod		
Impact	ASTM D-256	18 ft-lbs./in
Resistance,	ASTIVI D-230	953 J/m
@ 73°F (23°C)		
Rockwell		
Hardness (R	ASTM D-785	94
Scale)		
Coefficient of		4.2x10 ⁻⁵ °F
Linear Thermal	ASTM D-696	7.56 X 10 ⁻⁵ /°C
Expansion		7.30 X 10 / C
Heat Deflection		
Temperature		173 °F
(HDT) @ 264 psi	ASTM D-648	79°C
(1.8Mpa)		750
annealed		
Flammability:		
Underwriter's	UL Standard 94 ²	V-0,5V ³
Lab. Component		
Recognition		
Motor Vehicle	MVSS 302	Pass
Safety Standard		
Federal Aviation	FAR 25.853(a)	Pass ³
Administration		
¹ All values based upon .125" (3.17mm) sheet unless		

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Kleerdex Company Customer Service

Aiken, SC 29802

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²Underwriter's Laboratories Inc., File E115252

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