KYDEX® 100
(High Impact Fire-Rated Sheet)

Super tough, durable KYDEX® 100, a proprietary alloy sheet, brings new dimensions to thermoformers in: formability, rigidity, breakage resistance, chemical resistance and fire retardancy.

KYDEX® 100 is available in a wide range of standard and custom colours, textures, and sheet sizes. It is Underwriters Laboratories, Inc® recognized for UL Std 94 V-0, 5V and UL Std 746C (in all thicknesses and colours) and has 961 J/m (18 ft-lbs/in) Notched Izod impact resistance.

Suggested Applications

- Aircraft Interiors
- Mass Transit Vehicle Interior Components
- Equipment Housings
- Medical Products
- Kiosk Housings

Features

- Good for deep or hard to form parts more rigid, parts will deform less when loaded
- High Notched Izod impact resistance offers unsurpassed resistance to breakage
- Meets highest standard for chemical resistance for thermoplastic materials
- Uniform wall thickness and crisp detail
- Easy machining and fabricating using conventional methods and equipment

Property	Test Method	Typical Value[1]	
Specific Gravity	ASTM D-792	1.35	
Tensile Strength	ASTM D-638	42 MPa	6,100 psi
Elongation %	ASTM D-638	160	
Flexural Strength	ASTM D-790	63 MPa	9,100 psi
Modulus of Elasticity	ASTM D-790	2,310 MPa	335,000 psi
Notched Izod Impact Resistance, @ 23°C (73°F)	ASTM D-256	961 J/m	18 ft-lbs/in
Rockwell Hardness (R Scale)	ASTM D-785	94	
Coefficient of Linear Thermal Expansion	ASTM D-696	7.56 x 10^{-5} °C	4.2 x 10^{-5} °F
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa) annealed	ASTM D-648	78.3°C	173°F
Flammability: Underwriters Laboratories., Inc® Component Recognition	UL Standard 94[2] UL Standard 746C	V-0, 5V [3]	
Motor Vehicle Safety Standard	MVSS 302	Pass	
Federal Aviation Administration	FAR 25.853 (a)	Pass[3]	
BS 476 Part 7		Class 1 @ 3.20 mm Class 1Y @ 2.00mm	
EC 95 / 28 / EG		Pass (1.00 - 6.00mm)	
DIN 5510-2		0.90mm (S4, ST2, SR2) 6.50mm (S4, ST2, SR1)	

1 Values based upon 3.18mm (0.125") sheet unless otherwise specified.
2 Underwriters Laboratories, Inc®, File E115252
3 All thicknesses 0.71mm (0.028") and above
* The thicknesses are added.
Not intended for specification purposes.

NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. All values at 73°F (23°C) unless otherwise noted.

7600 Anagram Drive | Eden Prairie, MN 55344 | Phone: 952-934-2303 | Toll Free: 800-776-7769 | Fax: 952-934-2314 | **www.plasticsintl.com**