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KYDEX INDUSTRIAL

KYDEX® Industrial Sheet

Super tough, durable KYDEX® industrial sheet is a proprietary alloy thermoplastic that brings new dimensions to customers in design freedom, formability, rigidity, impact resistance, chemical resistance and fire retardance.

KYDEX® sheet has key advantages to thermoformers with the product less hygroscopic, it typically does not require pre-drying and 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. With the introduction of new grades in 2011, thermoformers can now offer their customers a superior product that can weather the harsh environments of scratches, dents, cracks, stains, fading and chemicals at cost effective pricing.

KYDEX offers unparalleled colour matching and consistency, custom blank sizes, anti-microbial additives in convenient short runs.

Key Features

- Easy to form with excellent part definition and deep-draw characteristics
- Among the most rigid thermoplastics
- Substitute grades for ABS sheet with competitive pricing but superior cost/performance
- Uniform wall thickness and crisp detail
- High Notched Izod impact resistance offers unsurpassed resistance to breakage
- Meets highest standard for chemical resistance for thermoplastic materials
- Passes UL Std 94 V-0, 5V and UL 746C in all thicknesses and colours
- Available in eight thicknesses from 0.71mm
- Vast range of textures, a variety of colours, custom blank sizes and low minimums
- Easy machining and fabricating using conventional methods and equipment

Product Applications

- Equipment Housings
- Medical Products
- Aircraft Interiors
- Industrial Applications
- Point of Sale
- Electrical components
- Mass Transit Vehicle Interior Components
- Kiosk Housings

TECHNICAL DATA SHEET

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	961J/m	18ft-lbs/in
Rockwell Hardness (R Scale)	ASTM D - 785	94	
Coefficient of Linear Thermal Expansion	ASTM D - 696	7.56x 10 ⁵ °C	4.2 x 10 ⁵ °F
Heat Deflection Temperature (HDT) @ 264 psi (1.8MPa) annealed	ASTM D - 648	78.3°C	173°F
Flammability: Underwriters Laboratories, Inc®	UL Standard 94 ²	V-0, 5V ³	
Component Recognition	UL Standard 746C		
Motor Vehicle Safety Standard	MVSS 302	PASS	
Flammability:			
Vertical Burn, 60-second	FAR 25.853 (a)(i)	PASS	
Vertical Burn, 12-second	FAR 25.853 (a)(ii)	PASS	
BS 476 part 7		Class 1 @ 3.20mm Class 1Y @ 2.00mm	
EC 95/28/EG		PASS (1.00 - 6.00mm)	
DIN 5510-2		0.90mm (S4, ST2, SR2) 6.50 (S4, ST2, SR1)	

¹ - Values based upon 3.18mm (0.125") sheet unless otherwise specified.

² - Underwriters Laboratories, Inc®

³ - All thickness 0.71mm (0.028") and above.

* The thickness are added.

Not intended for specification purposes.

This specification provides typical data to the best of our knowledge at the time of publishing. Due to our inability to control conditions of use and application, we are unable to make any recommendations or suggestions. Mulford International nor any of their suppliers assume any liability for use of information presented.

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