

## KYDEX® 100

High impact fire-rated sheet

### Introduction

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

# **General Information**

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 and has 961 J/m (18 ft-lbs/in) Notched Izod impact resistance.

# Suggested Applications

Aircraft Interiors

- Medical Products
- Mass Transit Vehicle Interior Components
- Miscellaneous Applications

Equipment 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
- Recognized by Underwriters Laboratories, Inc® for Std 94 V-0, 5V and Std 746C in all thicknesses and colours
- Uniform wall thickness and crisp detail
- Easy machining and fabricating using conventional methods and equipment

Environmental and Safety Considerations

KYDEX, LLC is committed to ensuring that its products can be manufactured, transported, stored, used, disposed and recycled with an appropriate regard for safety, health and environmental protection. We support the safe handling of our products. Please contact our Technical Service department at 800.682.8758 for resources or visit our website: http://www.kydex.com. For Material Safety Data Sheets, please call 800.325.3133.

#### KYDEX, LLC ISO 9001 and 14001 Certified

#### Customer Service

6685 Low St, Bloomsburg, PA 17815 USA Phone: 800.325.3133, +1.570.389.5810 Outside the US: +1.570.389.5814 Fax: 800.452.0155, +1.570.387.7786 Email: info@kydex.com

#### **Technical Service**

Phone: 800.682.8758 ext. 581 Fax: +1.570.387.8722 Outside the US: +1.570.387.6997 ext. 581

www.kydex.com













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## **Physical Properties**

Property	Test Method	Typical Value <sup>1</sup>	
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 <sup>-5</sup> °C	4.2 x 10 <sup>-5</sup> °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 <sup>2</sup> UL Standard 746C	V-0, 5V <sup>3</sup>	
Motor Vehicle Safety Standard	MVSS 302	Pass	
Federal Aviation Administration	FAR 25.853 (a)	Pass <sup>3</sup>	
BS 476 Part 7		Class 1 @ 3.20 mm Class 1Y @ 2.00mm	
C 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.

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This information supersedes all previously published data.