Technical Data Sheet

KYDEX® THERMOPLASTIC SHEET

KYDEX® T
High impact fire-rated sheet

Introduction

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.

General Information

Since KYDEX® T is less hygroscopic, unlike FR-ABS, it 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 Underwriter's Laboratories, Inc® recognized Std 94 V-0, 5V.

Suggested Applications

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

Features

- Substitute for FR-ABS sheet with competitive pricing but superior cost/performance
- Higher breakage resistance measured by the Notched Izod test than competitive thermoplastics
- Available in thicknesses from 0.71mm (0.028") and up, in eight textures, a variety of colors, custom blank sizes and low minimums
- Among the most rigid of thermoforming materials with a modulus of elasticity of 2,482 MPa (360,000 psi)
- Easy to form with excellent part definition and deep-draw characteristics
- Recognized by Underwriter's Laboratories, Inc® for Std 94 V-0, 5V in all thicknesses
- Form times similar to FR-ABS making it an easy transition from competitive products.

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
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Physical Properties

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	110	
Flexural Strength	ASTM D-790	66 MPa	9,600 psi
Modulus of Elasticity	ASTM D-790	2,480 MPa	360,000 psi
Notched Izod Impact Resistance, @ 23°C (73°F)	ASTM D-256	801 J/m	15 ft-lbs/in
Rockwell Hardness (R Scale)	ASTM D-785	94	
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa) annealed	ASTM D-648	75.6°C	168°F
Flammability: Underwriter's Laboratories., Inc® Component Recognition	UL Standard 94[2]	V-0, 5V[3]	
Federal Aviation Administration	FAR 25.853 (a)	Pass[3]	

1 Values based upon 3.18mm (0.125") sheet unless otherwise specified.
2 Underwriter's 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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