

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

SEKISUI SPI 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.sekisui-spi.com>. For Material Safety Data Sheets, please call 800.325.3133.

SEKISUI SPI

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@sekisui-spi.com

Technical Service

Phone: 800.682.8758
Fax: +1.570.387.8722
Outside the US: +1.570.387.6997
techservice@sekisui-spi.com

sekisui-spi.com

1-888-CURBELL

www.curbellplastics.com

Curbell Plastics is a proud supplier of SEKISUI | SPI materials.

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Physical Properties

| Property | Test Method | Typical Value ¹ | |
|---|---|----------------------------|--------------|
| PHYSICAL | | | |
| Specific Gravity | ASTM D-792 | 1.35 | |
| Rockwell Hardness (R Scale) | ASTM D-785 | 94 | |
| MECHANICAL | | | |
| 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 |
| THERMAL | | | |
| Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa) annealed | ASTM D-648 | 75.6°C | 168°F |
| FLAMABILITY² | | | |
| Vertical Burn, 60-second Vertical Burn, 12-second | FAR 25.853 (a)(i) FAR 25.853 (a)(ii) | PASS PASS | |
| Flammability: Underwriter's Laboratories, Inc® Component Recognition | UL Standard 94 ² | V-0, 5V 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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Phone: 800.682.8758
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Outside the US: +1.570.387.6997
techservice@sekisui-spi.com

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This information supersedes all previously published data.