

KYDEX® 6200

Fire-rated sheet for mass transit

Introduction

KYDEX® 6200 is a proprietary, high performance thermoplastic sheet designed for use in mass transit vehicles such as subways, vans, buses and trains.

General Information

KYDEX® 6200 meets both Federal Transit Administration (FTA) and the Federal Rail Administration (FRA) requirements for smoke emission and flammability as tested under ASTM E-662 and ASTM E-162. It is the ideal thermoplastic to solve your mass transportation equipment needs.

Suggested Applications

- Seatbacks
- Bulkhead Components
- Window Reveals
- Ceiling Components

Features

- Available in over 200 developed colours, various textures and thicknesses from 0.71mm (0.028") and up
- Easy to clean graffiti/spray paint, lipstick, pen, grease and grime with cleaners such as Soft Scrub®, Fantastic®, and citrus-based cleaners such as Cirti Kleen HD® (avoid ammoniated cleaners)
- Resistant to a wide range of concentrated chemicals and solvents, withstands frequent cleaning without staining or fading
- Forms to deep draws with low forces when heated to the upper range of 163 - 200°C (325 - 392°F) and an unusually high resistance to hot tearing
- Can be formed on all standard presses and cut on all standard die-cutting machines

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.



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Because we cannot anticipate or control the many different conditions under which this information and our products may be used, we do not guarantee the applicability of the accuracy of this information or the suitability of our products in any given situation. Users should conduct their own tests to determine the suitability of each product for their particular purposes. Data in the physical property table represents typical values and are to serve only as a guide for engineering design. Results are obtained from specimens under ideal laboratory conditions. Right to change physical properties as a result of technical progress is reserved. THE PRODUCTS DISCUSSED ARE SOLD WITHOUT WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, EITHER EXPRESSED OR IMPLIED, EXCEPT AS PROVIDED IN OUR STANDARD TERMS AND CONDITIONS OF SALE. Buyer assumes all responsibility for loss or damage arising from the handling and use of our products, whether done in accordance with directions or not. In no event shall the supplier or the manufacturer be liable for incidental or consequential damages. Also, statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent. Consult local code and regulatory agencies for specific requirements regarding code compliance, transporting, processing, recycling and disposal of our product. Product not intended for use as a heat resistant surface. Texture, product grade and other conditions may cause variations in appearance.

This information supersedes all previously published data.

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Physical Properties

Property	Test Method	Typical Value ¹	
Specific Gravity	ASTM D-792	1.40	
Tensile Strength	ASTM D-638	41 MPa	6,000 psi
Flexural Strength	ASTM D-790	63 MPa	9,200 psi
Modulus of Elasticity	ASTM D-790	2,413 MPa	350,000 psi
Notched Izod Impact Resistance @ 23°C (73°F)	ASTM D-256	187 J/m	3.5 ft-lbs/in
Coefficient of Linear Thermal Expansion	ASTM D-696	7.92 x 10 ⁻⁵ / °C	4.4 x 10 ⁻⁵ / °F
Rockwell Hardness (R Scale)	ASTM D-785	98	
Taber Abrasion Resistance Wt. Loss / 1,000 cycles	ASTM D-1044	0.042g	
Heat Deflection Temperature (HDT) @ 1.8 MPa (264 psi) annealed	ASTM D-648	77.8°C	172°F
Flammability: ² Independent Laboratory Testing	UL Standard 94	V-0	
Flammability: Vertical Burn, 60-second Vertical Burn, 12-second	FAR 25.853 (a)(i) FAR 25.853 (a)(ii)	PASS PASS	
Flammability: Motor Vehicle Safety Standard	FMVSS 302	Pass	
Flammability: Radiant Panel, Is	ASTM E-162	< 35	
Flammability: Smoke Generation	ASTM E-662	< 100 @1.5min < 200 @4.0 min	
Flammability: Fire Behavior Classification	DIN 5510-2	0.9mm (S4, ST2, SR2) 6.80mm (S4, ST2, SR2)	
¹ Values based upon 3.18mm (0.125") sheet unless otherwise specified. ² All thicknesses 0.71mm (0.028") and above Not intended for specification purposes.			



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