

## 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 Panels

### 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 & SAFETY CONSIDERATIONS

SEKISUI 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 appLab™ department at 800.682.8758 for resources and Safety Data Sheets or visit our website: [www.kydex.com](http://www.kydex.com).



#### Customer Collaboration

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| PROPERTY                                                                             | TEST METHOD    | TYPICAL VALUE <sup>1</sup>                             |                          |
|--------------------------------------------------------------------------------------|----------------|--------------------------------------------------------|--------------------------|
| PHYSICAL                                                                             |                |                                                        |                          |
| Specific Gravity                                                                     | ASTM D792      | 1.40                                                   |                          |
| Density                                                                              | ASTM D792      | 1.40 g/cm <sup>3</sup>                                 | 0.051 lb/in <sup>3</sup> |
| Water Absorption, 24 hr.                                                             | ASTM D570      | 0.09%                                                  |                          |
| Rockwell Hardness, R-scale                                                           | ASTM D785      | 105                                                    |                          |
| MECHANICAL                                                                           |                |                                                        |                          |
| Tensile Strength                                                                     | ASTM D-638     | 41.4 MPa                                               | 6,000 psi                |
| Tensile Modulus                                                                      | ASTM D-638     | 2,592 MPa                                              | 376,000 psii             |
| Flexural Strength                                                                    | ASTM D-790     | 63.4 MPa                                               | 9,200 psi                |
| Flexural Modulus                                                                     | ASTM D-790     | 2,413 MPa                                              | 350,000 psi              |
| Compressive Strength, yield                                                          | ASTM D-695     | 55.5 MPa                                               | 8,050 psi                |
| Compressive Modulus                                                                  | ASTM D-695     | 2,579 MPa                                              | 374,000 psi              |
| Shear Strength                                                                       | ASTM D-732     | 49 MPa                                                 | 7,100 psi                |
| Bearing Strength, 4% deflection                                                      | ASTM D-953     | 33.5 MPa                                               | 4,860 psi                |
| Bearing Strength, max.                                                               | ASTM D-953     | 199 MPa                                                | 28,800 psi               |
| Notched Izod Impact                                                                  | ASTM D-256     | 187 J/m                                                | 3.5 ft-lb/in             |
| Garnder Drop Dart Impact, GE                                                         | ASTM D-5420    | >72.3 J                                                | >640 in-lb <sub>f</sub>  |
| THERMAL                                                                              |                |                                                        |                          |
| Heat Deflection Temperature (HDT)<br>@ 264 psi (1.8 MPa) Annealed                    | ASTM D648      | 77.8°C                                                 | 172°F                    |
| Coefficient of Thermal Expansion                                                     | ASTM E831      | 76.4 µm/m/°C                                           | 42.4 µin/in/°F           |
| ELECTRICAL                                                                           |                |                                                        |                          |
| Dielectric Strength, oil                                                             | ASTM D149      | 19.5 kV/mm                                             | 495 V/mil                |
| FLAMMABILITY <sup>2</sup>                                                            |                |                                                        |                          |
| Flammability:<br>Independent Laboratory Testing                                      | UL Standard 94 | V-0                                                    |                          |
| Flammability:<br>Independent Laboratory Testing                                      | FMVSS 302      | Pass                                                   |                          |
| Flammability:<br>Flame Spread Index                                                  | ASTM E162      | I <sub>s</sub> <35<br>No Burning Drip                  |                          |
| Flammability:<br>Smoke Density                                                       | ASTM E662      | D <sub>s</sub> (1.5) <100<br>D <sub>s</sub> (4.0) <200 |                          |
| Flammability:<br>Fire Behavior Classification                                        | DIN 5510-2     | S4, ST2, SR2                                           |                          |
| <sup>1</sup> Values based upon 3.18mm (0.125") sheet unless otherwise specified.     |                |                                                        |                          |
| <sup>2</sup> All thicknesses and colours<br>Not intended for specification purposes. |                |                                                        |                          |

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