

KYDEX® P88

Fire-rated profile extrusion compound for mass transit applications

Introduction

KYDEX® P88 is a proprietary, high performance thermoplastic profile extrusion compound designed for use in mass transit interior applications for subways, vans, buses, and trains.

General Information

KYDEX® P88 meets the 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 meet your mass transportation needs.

Suggested Applications

- Extruded trim pieces to cover seams or exposed edges when mating or joining KYDEX® thermoplastic components

Features

- Meets flame spread and smoke development requirements listed in 49 CFR 238
- Easy to clean graffiti, spray paint, lipstick, pen, grease, and grime with cleaners such as Soft Scrub®, Fantastik®, and citrus based cleaners such as Citri Kleen HD® (avoid ammoniated cleaners)
- Resistant to a wide range of concentrated chemicals and solvents; withstands frequent cleaning without staining or fading

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 9001:2008 and 14001:2004 Certified

Customer Service

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Physical Properties

| Property | Test Method | Typical Value ¹ | |
|---|----------------|--|----------------|
| PHYSICAL | | | |
| Specific Gravity | ASTM D-792 | 1.40 | |
| Water Absorption | ASTM D-570 | 0.09% | |
| Rockwell Hardness, R-Scale | ASTM D-785 | 98 | |
| MECHANICAL | | | |
| Tensile Strength | ASTM D-638 | 41 MPa | 6,000 psi |
| Flexural Strength | ASTM D-790 | 63 MPa | 9,200psi |
| Flexural Modulus | ASTM D-790 | 2,413 MPa | 350,000 psi |
| Notched Izod Impact Resistance @ 23°C (73°F) | ASTM D-256 | 187 J/n | 3.5 ft-lb/in |
| THERMAL | | | |
| Heat Deflection Temperature (HDT) 264 psi (1.8 MPa), annealed | ASTM D-648 | 77.8°C | 172.0°F |
| Coefficient of Thermal Expansion | ASTM E-831 | 76.4 µm/m/°C | 42.4 µin/in/°F |
| FLAMMABILITY ² | | | |
| Flammability: Independent Laboratory Testing | UL Standard 94 | V-0 | |
| Flammability: Motor Vehicle Safety Standard | FMVSS 302 | Pass | |
| Flammability: Flame Spread Index | ASTM E-162 | I ₅ <35 No Burning Drip | |
| Flammability: Smoke Density | ASTM E-662 | D ₅ (1.5) <100 D ₅ (4.0) <100 | |
| Flammability: Fire Behavior Classification | DIN 5510-2 | 0.9mm (S4, ST2, SR2) 6.80mm (S4, ST2, SR2) | |
| ¹ Values based upon 0.125" (3.17mm) sheet unless otherwise specified ² All Thicknesses Not intended for specification purposes. | | | |

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