

KYDEX® IM88

Low Smoke Injection Molding Compound for Mass Transportation

INTRODUCTION

KYDEX® IM88 low smoke injection molding compound is a proprietary, high performance compound designed for use in mass transit vehicles such as subways, vans, buses, and trains.

GENERAL INFORMATION

KYDEX® IM88 meets the recommended fire safety practices of both the Federal Transit Administration (FTA) and the Federal Rail Administration (FRA) for smoke emission and flammability as tested under ASTM E-662 and ASTM E-162. It is the ideal material for parts used in rail and transit applications.

SUGGESTED APPLICATIONS

- Injection molded trim pieces to cover seams or exposed edges when mating or joining KYDEX® thermoplastic components
- End caps and snap fit covers

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

PROCESSING CHARACTERISTICS

- Drying is not typically required, however, if drying is needed dry at 130°F for 4 hours.
- Barrel temperatures are typically 315°F to 385°F.
- Mold temperature should be between 90 and 140°F
- Minimize the residence time in the barrel and keep melt temperature between 385°F and 405°F.
- To achieve a homogeneous melt, keep sufficient back pressure (100-400 psi typical).
- Before shutdown purge thoroughly and neutralize the mold.

Contact SEKISUI SPI for more information.

ENVIRONMENTAL & SAFETY CONSIDERATIONS

SEKISUI KYDEX 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.



Customer Collaboration

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PROPERTY	TEST METHOD	TYPICAL VALUE ¹	
PHYSICAL			
Specific Gravity	ASTM D792	1.44	
Density	ASTM D792	1.44 g/cm ³	0.052 lb/in ³
MECHANICAL			
Tensile Strength	ASTM D-638	53.5 MPa	7,760 psi
Flexural Strength	ASTM D-790	74.5 MPa	10,800 psi
Flexural Modulus	ASTM D-790	3,103 MPa	450,000 psi
Notched Izod Impact Resistance @ 23°C (73°F)	ASTM D-256	32.0 J/n	0.6 ft-lb/in
THERMAL			
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa) Annealed	ASTM D648	71.1°C	160.0°F
FLAMMABILITY ²			
Flammability: Motor Vehicle Safety Standard	FMVSS 302	Pass	
Flammability: Flame Spread Index	ASTM E162	I _s <35 No Burning Drip	
Flammability: Smoke Density	ASTM E662	D _s (1.5) <100 D _s (4.0) <100	

¹ Values based upon 3.18mm (0.125") sheet unless otherwise specified.

² All thicknesses and colours

Not intended for specification purposes.

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