

KYDEX® P2200

SMP800C compliant profile extrusion compound for mass transit applications

INTRODUCTION

KYDEX® P2200 is a high performance thermoplastic profile extrusion compound designed for use in mass transit interior applications where SMP800C or BSS7239 compliance is required.

GENERAL INFORMATION

KYDEX® P2200 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. Additionally, KYDEX® P2200 meets the toxicity criteria defined by SMP800C and BSS7239.

SUGGESTED APPLICATIONS

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

FEATURES

- Meets flamespread and smoke development requirements listed in 49 CFR 238
- Compliant to SMP800C and BSS7239 toxicity specifications

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

6685 Low St, Bloomsburg, PA 17815 USA
Phone: 800.325.3133, +1.570.389.5810
Email: info@kydex.com

appLab™

Phone: 800.682.8758
Email: applab@kydex.com

kydex.com

KYDEX® P2200

SMP800C compliant profile extrusion compound for mass transit applications

PROPERTY	TEST METHOD	TYPICAL VALUE ¹	
PHYSICAL			
Specific Gravity	ASTM D792	1.32	
Density	ASTM D792	1.30 g/cm ³	0.048 lb/in ³
Water Absorption, 24 hr.	ASTM D570	0.10%	
Rockwell Hardness, R-scale	ASTM D785	96	
Melt Flow Index 300°C / 2.16 kg	ASTM D1238	4.25 g/10 min.	
MECHANICAL			
Tensile Strength	ASTM D-638	36.5 MPa	5,300 psi
Tensile Modulus	ASTM D-638	3,654 MPa	530,000psi
Flexural Strength	ASTM D-790	70.3 MPa	10,200psi
Flexural Modulus	ASTM D-790	3,371 MPa	489,000 psi
Garnder Drop Dart Impact, GE	ASTM D-5420	5.3 J	47.2 in-lb _f
Garnder Drop Dart Impact, GE @ -20°F (-29°C)	ASTM D-5420	3.1 J	27.4 in-lb _f
THERMAL			
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa) Annealed	ASTM D648	77.8°C	172.0°F
Coefficient of Thermal Expansion	ASTM E831	43.7 µm/m/°C	24.3 µin/in/°F
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	1.3 kV/mm	537 V/mil
FLAMMABILITY ²			
Flammability: Flame Spread Index	ASTM E-162	I _s <35 No Burning Drip	
Flammability: Smoke Density	ASTM E-662	D _s (1.5) <100 D _s (4.0) <200	
Bombardier Toxic Gas Generation	SMP 800-C	Pass	
Boeing Toxic Gas Generation	BSS 7239	Pass	

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

² All thicknesses and colours
Not intended for specification purposes.

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

² All thicknesses and colours

Not intended for specification purposes.



Customer Collaboration

6685 Low St, Bloomsburg, PA 17815 USA

Phone: 800.325.3133, +1.570.389.5810

Email: info@kydex.com

appLab™

Phone: 800.682.8758

Email: applab@kydex.com

kydex.com

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.