

KYDEX® 2200IM

SMP800C compliant injection molding compound

INTRODUCTION

KYDEX® 2200IM is an injection moulding compound for use in mass transit interior applications where SMP800C or BSS7239 compliance is required.

GENERAL INFORMATION

KYDEX® 2200IM 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® 2200LT meets the toxicity criteria defined by SMP800C and BSS7239.

SUGGESTED APPLICATIONS

- Trim pieces to cover seams or exposed edges when mating or joining parts
- Endcaps and snap fit covers

FEATURES

- Meets flame-spread and smoke development requirements listed in 49 CFR 238
- Compliant to SMP800C and BSS7239 toxicity specifications
- Allows for tight tolerance control
- Sustainable: recycling eliminates disposal in landfill and associated costs.

PROCESSING CHARACTERISTICS

- Drying Temperature: 88°C (190°F)
- Drying Time: 3 - 4 Hours
- Process Temperature: 282°C (540°F)

Contact SEKISUI KYDEX, LLC for more information.

ENVIRONMENTAL AND 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 Technical Service department at 800.682.8758 for resources or visit our website: <http://www.kydex.com>. For Material Safety Data Sheets, please call 800.325.3133.



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

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Property	Test Method	Typical Value ¹	
PHYSICAL			
Specific Gravity	ASTM D-792	1.30	
Water Absorption, 24hr	ASTM D-570	0.10%	
Rockwell Hardness, R-Scale	ASTM D-785	111	
MECHANICAL			
Tensile Strength	ASTM D-638	52.7 MPa	7,640 psi
Tensile Modulus	ASTM D-638	4,289 MPa	622,000 psi
Flexural Strength	ASTM D-790	93.8 MPa	13,600 psi
Flexural Modulus	ASTM D-790	4,275 MPa	620,000 psi
Compressive Strength, yield	ASTM D-695	73.8 MPa	10,700 psi
Compressive Modulus	ASTM D-695	4,268 MPa	619,000 psi
Shear Strength	ASTM D-732	46.1 MPa	6,690 psi
Bearing Strength, 4% deflection	ASTM D-953	41.7 MPa	6,050 psi
Bearing Strength, max.	ASTM D-953	259.9 MPa	37,700 psi
Notched Izod Impact	ASTM D-256	128.7 J/m	2.41 ft-lb _i /in
Gardner Drop Dart Impact, GE	ASTM D-5420	38.6 J	342 in-lb _i
Gardner Drop Dart Impact, GE @ -20°F (-29°C)	ASTM D-5420	16.3 J	144 in-lb _i
THERMAL			
Heat Deflection Temperature (HDT) @ 1.8 MPa (264 psi)	ASTM D-648	82.2°C	180°F
Heat Deflection Temperature (HDT) @ 0.455 MPa (66 psi)	ASTM D-648	90.3°C	194.5°F
Coefficient of Thermal Expansion	ASTM E-831	49.2 µm/m/°C	27.4 µin/in/°F
ELECTRICAL			
Dielectric Strength, oil	ASTM D-149	18.6 > kV/mm	> 472 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") injection molded samples unless otherwise specified.

² All Thicknesses and colours
Not intended for specification purposes.

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