

KYDEX® 2200LT

SMP800C compliant sheet for mass transit applications

Introduction

KYDEX® 2200LT is a high performance thermoplastic sheet designed for use in mass transit interior applications where SMP800C or BSS7239 compliance is required.

General Information

KYDEX® 2200LT is a cost effective alternative to FRP that offers the additional benefit of weight savings. It 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

- Seatbacks
- Armrests
- Window Shrouds
- Bulkhead Components
- Wall and Ceiling Panels

Features

- Meets flamespread and smoke development requirements listed in 49 CFR 238
- Compliant to SMP800C and BSS7239 toxicity specifications
- Excellent formability and fabrication characteristics
- Allows for tight tolerance control
- Excellent resistance to graffiti, chemicals, and staining

Environmental and Safety Considerations

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.

KYDEX, LLC

ISO 9001 and 14001 Certified

Customer Service

6685 Low St, Bloomsburg, PA 17815 USA
Phone: 800.325.3133, +1.570.389.5810
Outside the US: +1.570.389.5814
Fax: 800.452.0155, +1.570.387.7786
Email: info@kydex.com

Technical Service

Phone: 800.682.8758
Fax: +1.570.387.8722
Outside the US: +1.570.387.6997
Email: techservice@kydex.com

www.kydex.com

KYDEX® 2200LT SMP800C compliant sheet for mass transit applications

Physical Properties

Property	Test Method	Typical Value ¹	
Specific Gravity	ASTM D-792	1.30	
Tensile Strength	ASTM D-638	52.7 MPa	7,650 psi
Tensile Modulus	ASTM D-638	3,895 MPa	565,000 psi
Flexural Strength	ASTM D-790	77.9 MPa	11,300 psi
Flexural Modulus	ASTM D-790	3,110 MPa	451,000 psi
Notched Izod Impact	ASTM D-256	140 J/m	2.61 ft-lb _f /in
Gardner Drop Dart Impact	ASTM D-5420	40.9 J	362 in-lb _f
Gardner Drop Dart Impact, -20oF (-29oC)	ASTM D-5420	14.2 J	126 in-lb _f
Heat Deflection Temperature (HDT) @264psi (1.8 MPa) unannealed/annealed	ASTM D-648	89.0°C	192.2°F
Coefficient of Thermal Expansion	ASTM E-831	53.8 µm/m/°C	29.9 µin/in/°F
Rockwell Hardness, R-Scale	ASTM D-785	108	
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 0.125" (3.17mm) sheet unless otherwise specified Not intended for specification purposes.			

KYDEX, LLC
ISO 9001 and 14001 Certified

Customer Service
6685 Low St, Bloomsburg, PA 17815 USA
Phone: 800.325.3133, +1.570.389.5810
Outside the US: +1.570.389.5814
Fax: 800.452.0155, +1.570.387.7786
Email: info@kydex.com

Technical Service
Phone: 800.682.8758
Fax: +1.570.387.8722
Outside the US: +1.570.387.6997
Email: techservice@kydex.com

www.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.

This information supersedes all previously published data.