



## KYDEX® 115

High rigidity sheet for ceiling panels

### Introduction

KYDEX® 115 high rigidity fire-rated sheet is a non-porous, tough, chemical resistant, Class I/A rated sheet designed for applications like ceiling panels that require a high rigidity for sag-resistance.

### General Information

The material is monolithic, contains no fibers and will not crack, chip, flake, or deteriorate over time. Available in full sheets and in custom sizes to be used in ceiling grid systems. KYDEX® 115 is approved for use in Class 10 rated cleanrooms, as tested according to Fed-Std 209D.

### Suggested Applications

- \* Clean Room Walls and Ceilings
- \* Food Equipment Components
- \* Miscellaneous Applications

### Features

- \* superior impact protection
- \* will not chip, crack, or flake
- \* color is integral throughout each sheet
- \* can be thermoformed and fabricated for 2 and 3-dimensional parts
- \* ideal for products that must be routinely removed and/or cleaned for maintenance
- \* can be routed, drilled and cut using standard wood and/or metal working equipment
- \* excellent chemical resistance, allowing the removal of tough stains with stronger cleaning agents
- \* meets Class I/A criteria, using ASTM E-84 methodology, for flame spread and smoke development
- \* approved for incidental food contact for use in USDA inspected meat and poultry plants (in white and beige)
- \* endorsed by the Royal Institute of Public Health for conformance to the standard of Hygienic Merit

### Environmental and Safety Considerations

Kleerdex 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: [www.kydex.com](http://www.kydex.com). For Material Safety Data Sheets, please call 800.325.3133.

#### **Kleerdex Company, LLC**

ISO 9001 and ISO 14001 Certified

#### Customer Service

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#### Technical Service

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[www.kydex.com](http://www.kydex.com)



Durability by Design®



## Physical Properties

Property	Test Method	Typical Value <sup>1</sup>	
Specific Gravity	ASTM D-792	1.47	
Tensile Strength	ASTM D-638	40 MPa	5,750 psi
Flexural Strength	ASTM D-790	70.3 MPa	11,200 psi
Modulus of Elasticity	ASTM D-790	2,392 MPa	347,000 psi
Notched Izod Impact Resistance, @ 23°C (73°F)	ASTM D-256	160 - 267 J/m	3 - 5 ft-lbs/in
Rockwell Hardness (R Scale)	ASTM D-785	107	
Water Absorption %	24 hrs @ 23°C (73°F) 7 days @ 23°C (73°F)	0.06 0.15	
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa) annealed	ASTM D-648	81.1°C	178°F
Flammability: <sup>2</sup> Flame Spread Smoke Developed	ASTM E-84 <i>free standing</i> <sup>3</sup>	25 440 (Class I/A)	
Class 1A	ASTM E-84	Pass <sup>4</sup>	
Clean Room Class	Federal Standard 209D	Class 10	

<sup>1</sup> Values based upon 3.18mm (0.125") sheet unless otherwise specified.  
<sup>2</sup> Independent Lab  
<sup>3</sup> Based upon 2.00mm (0080")  
 Not intended for specification purposes.

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 products. 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.

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