



## KYDEX® 1900

Mid-temperature aircraft grade

### Introduction

KYDEX® 1900 is a proprietary thermoplastic sheet with improved heat distortion temperature for higher in-service temperatures.

### General Information

KYDEX® 1900 meets Federal Aviation Regulation (FAR) 25.853 (a) for vertical burn. It is available in a wide range of textures, colors, thicknesses and sheet sizes. Maximum recommended service temperature is approximately 76 - 81°C (169 - 178°F) depending on the thermoforming technique and application.

### Suggested Applications

- \* Aircraft Interiors
- \* Equipment Housings
- \* Miscellaneous Applications

### Features

- \* available in thicknesses from 1.02mm (0.040") to 6.35mm (0.250") and in a wide range of distinctive textures and colors
- \* meets the requirements of the Federal Aviation Administration paragraph 1ii and a1ii in all thickness for vertical burn
- \* heat distortion temperature (HDT) is 76°C (168°F) unannealed and a high 78°C (173°F) after annealing
- \* excellent thermoforming properties, uniform wall thickness and crisp detail
- \* easy machining and fabricating using conventional methods and equipment
- \* endorsed by the Royal Institute of Public Health for conformance to the standard of Hygenic 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

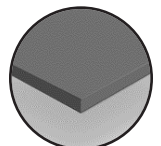
#### Customer Service

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



*Durability by Design®*



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### Physical Properties

Property	Test Method	Typical Value <sup>1</sup>	
Specific Gravity	ASTM D-792	1.35	
Tensile Strength	ASTM D-638	42 MPa	6,100 psi
Flexural Strength	ASTM D-790	69 MPa	10,000 psi
Modulus of Elasticity	ASTM D-790	2,517 MPa	365,000 psi
Notched Izod Impact Resistance, @ 23°C (73°F)	ASTM D-256	374 - 480 J/m	7 - 9 ft-lbs/in
Rockwell Hardness (R Scale)	ASTM D-785	108	
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa)	ASTM D-648	78.3°C (annealed) 75.5°C (unannealed)	173°F (annealed) 168°F (unannealed)
Flammability: Federal Aviation Administration	FAR 25.853 (a)	Pass	
Thermoforming Temperature		163 - 200°C	325 - 390°F
Mold Shrinkage %		0.40 - 0.60	

<sup>1</sup> Values based upon 3.18mm (0.125") sheet unless otherwise specified. 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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