



KYDEX[®] 5555

Low heat release aviation sheet

Introduction

KYDEX[®] 5555 is specifically formulated to meet the safety needs of the aviation industry.

General Information

KYDEX[®] 5555 is a proprietary, high performance acrylic/PVC thermoplastic sheet that meets all fire retardancy requirements set forth in Federal Aviation Regulations 25.853 paragraphs (a) and (d) (old (c)) including low heat release (65/65) in the OSU rate of heat release test. KYDEX[®] 5555 exceeds the heat release to a level of 55/55. Its excellent properties make it the ideal material to form two-and-three-dimensional aircraft components.

Suggested Applications

- * seatbacks
- * window reveals
- * bulkhead components
- * ceiling components

Features

Available in over 200 developed colours, various surface textures, and eight thicknesses ranging from 0.71mm (0.300") and up.

Very resistant to a wide range of concentrate chemicals, and is therefore easy to clean with aggressive cleaners such as Soft Scrub[®], Fantastic[®], and citrus-based cleaners such as Citri Kleen[®]. Ammoniated cleaners should be avoided since they can leave a residue.

Meets the stringent requirements of the FAR 25.853 paragraph (d) (replaces para.c), in all thicknesses and colors.

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. For Material Safety Data Sheets, please call 800.325.3133.

Kleerdex Company, LLC

ISO 9001 and ISO 14001 Certified

Customer Service

6685 Low St, Bloomsburg, PA 17815 USA
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www.kydex.com



Durability by Design[®]

Technical Data Sheet



KYDEX® 5555 Low heat release aviation sheet

Production Capabilities

Texture	Width	Length		Thickness	Colour
	Capabilities*	Sheet*	Rolls	Capabilities*	$\Delta L = \pm 1.5$ $\Delta a = \pm 1.5$ $\Delta b = \pm 1.5$ $\Delta E = \pm 2.0$
P-1 Haircell	304.80mm - 1,524.00mm (12"-60")	304.80mm - 7,315.20mm (12" - 288")	0.71mm (152.40m) 0.028" (500') 1.00mm (91.44m) 0.040" (300') 1.27mm (76.20m) 0.050" (250')	0.71mm - 6.40mm (0.028"- 0.250")	Over 200 Developed Colours
P-3 Velour	304.80mm - 1,524mm (12"-60")	304.80mm - 7,315.20mm (12" - 288")	0.71mm (152.40m) 0.028" (500') 1.00mm (91.44m) 0.040" (300') 1.27mm (76.20m) 0.050" (250')	0.71mm - 6.40mm (0.028"- 0.250")	Over 200 Developed Colours
P-7 Stipple	304.80mm - 1,320.80mm (12"-52")	304.80mm - 7,315.20mm (12" - 288")	NA	1.5mm - 6.40mm (0.060"- 0.250")	Over 200 Developed Colours
P-8 Suede	304.80mm - 1,524mm (12"-60")	304.80mm - 7,315.20mm (12" - 288")	NA	0.71mm - 6.40mm (0.028"- 0.250")	Over 200 Developed Colours
P-A Smooth	NA	NA	NA	NA	NA
P-C Level Haircell	304.80mm - 1,524mm (12"-60")	304.80mm - 7,315.20mm (12" - 288")	0.71mm (152.40m) 0.028" (500') 1.00mm (91.44m) 0.040" (300') 1.27mm (76.20m) 0.050" (250')	0.71mm - 6.40mm (0.028"- 0.250")	Over 200 Developed Colours
P-E Smooth Nap	304.80mm - 1,524mm (12"-60")	304.80mm - 7,315.20mm (12" - 288")	0.71mm (152.40m) 0.028" (500') 1.00mm (91.44m) 0.040" (300') 1.27mm (76.20m) 0.050" (250')	0.71mm - 6.40mm (0.028"- 0.250")	Over 200 Developed Colours
P-H Seville	304.80mm - 1,524mm 12"-60"	304.80mm - 7,315.20mm (12" - 288")	1.00mm (91.44m) 0.040" (300') 1.27mm (76.20m) 0.050" (250')	1.02mm - 6.40mm (0.040"- 0.250")	Over 200 Developed Colours
P-F Levant	304.80mm - 1,320.80mm (12"-52")	304.80mm - 7,315.20mm (12" - 288")	1.00mm (91.44m) 0.040" (300') 1.27mm (76.20m) 0.050" (250')	1.02mm - 6.40mm (0.040"- 0.250")	Over 200 Developed Colours
P-K Cashmere	304.80mm - 1,524mm (12"-60")	304.80mm - 7,315.20mm (12" - 288")	0.71mm (152.40m) 0.028" (500') 1.00mm (91.44m) 0.040" (300') 1.27mm (76.20m) 0.050" (250')	0.71mm - 6.40mm (0.028"- 0.250")	Over 200 Developed Colours

* Standard Widths: 914.40mm (36"), 1,219.20mm (48"), 1,524.00mm (60")

* Standard Lengths: Sheet - 2,438.40mm (96") Roll - 36.58m (120')

* Standard Thicknesses: 0.56mm (0.22"), 0.71mm (0.028"), 1.02mm (0.040"), 1.52mm (0.060"), 2.03mm (0.080"), 2.36mm (0.093"), 3.18mm (0.125"), 3.96mm (0.156"), 4.75mm (0.187"), 6.35mm (0.250"), 7.92mm (0.312"), 8.25mm (0.325"), 9.52mm (0.375"), 10.80mm (0.425"), 12.70mm (0.500")

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Customer Service

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Durability by Design®



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Physical Properties

Property	Test Method	Typical Value ¹	
Specific Gravity	ASTM D-792	1.52	
Tensile Strength	ASTM D-638	42.6 MPa	6,180 psi
Flexural Strength	ASTM D-790	81.2 MPa	11,780 psi
Modulus of Elasticity	ASTM D-790	3,833 MPa	556,000 psi
Notched Izod Impact Resistance, @ 23°C (73°F)	ASTM D-256	187 J/m	3.5 ft-lbs/in
Rockwell Hardness (R Scale)	ASTM D-785	111	
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa) annealed	ASTM D-648	75.9°C	168.6°F
Flammability: Radiant Panel	ASTM E-162	Pass ³	
Federal Aviation Administration	FAR 25.853 (a)	Pass ³	
Federal Aviation Administration	FAR 25.853(d) a) Smoke Generation b) Rate of Heat Release	a) <150 b) <55/55	
Forming Temperature		170-200°C	338-392°F

¹ Values based upon 3.18mm (0.125") sheet unless otherwise specified.
² Underwriter's Laboratories, Inc®, File E115252
³ All thicknesses 0.71mm (0.028") and above
 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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