

## KYDEX® 5555 MB

Low heat release aviation sheet with antimicrobial protection

### INTRODUCTION

KYDEX® 5555 is specifically formulated to meet the safety needs of the aviation industry. Antimicrobial protection is built-in to continuously fight the growth of microbes.

### GENERAL INFORMATION

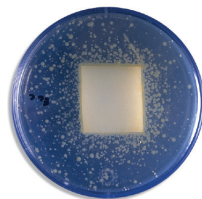
KYDEX® 5555 is a proprietary, high performance acrylic/PVC thermoplastic sheet that meets all fire retardancy requirements set forth in Federal Aviation Regulations 25.853 paragraphs (a) and (d) (old (c)) including low heat release in the OSU HR test. KYDEX® 5555 exceeds the heat release requirement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

### SUGGESTED APPLICATIONS

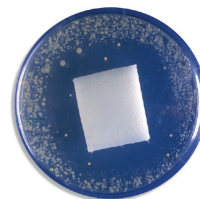
- Seat parts
- Bulkhead laminates
- Life vest shrouds
- Passenger service units
- Monitor shrouds
- Armrests
- Window shades
- Moulding strips
- Tray tables
- Kick panels

### FEATURES

- Meets the stringent requirements of the FAR 25.853 paragraph (d) (replaces para.c), in all thicknesses and colours
- Good formability and extensibility
- Easy to work with once formed
- Stronger cleaning agents can be used without discoloration or damage to surface material
- More resistance to a wider range of concentrated chemicals
- Antimicrobial protection inhibits the growth of bacteria that can cause stains, odors and product deterioration
- Antimicrobial protection is built-in to the sheet so it won't wash or wear away and lasts for the lifetime of the product
- Antimicrobial protection keeps the surface cleaner between cleanings



Without antimicrobial protection



With antimicrobial protection

*This information is based upon standard laboratory tests and is provided for comparative purposes to substantiate antimicrobial activity for non-public health applications. Antimicrobial protection inhibits the growth of microorganisms that can cause stains, odors and product degradation.*

### ENVIRONMENTAL & 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

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### PHYSICAL PROPERTIES

Property	Test Method	Typical Value <sup>1</sup>	
<b>PHYSICAL</b>			
Specific Gravity	ASTM D792	1.52	
Water Absorption, 24hr	ASTM D570	0.09%	
Rockwell Hardness, R-Scale	ASTM D785	111	
<b>MECHANICAL</b>			
Tensile Strength	ASTM D638	42.6 MPa	6,180 psi
Tensile Modulus	ASTM D638	3,523 MPa	511,000 psi
Poisson's Ratio	ASTM D638	0.370	
Flexural Strength	ASTM D790	81.2 MPa	11,780 psi
Flexural Modulus	ASTM D790	3,833 MPa	556,000 psi
Compressive Strength, yield	ASTM D695	65.8 MPa	9,550 psi
Compressive Modulus	ASTM D695	3,868 MPa	561,000 psi
Shear Strength	ASTM D732	49.8 MPa	7,220 psi
Bearing Strength, 4% deflection	ASTM D953	37.2 MPa	5,390 psi
Bearing Strength, max.	ASTM D953	207 MPa	30,000 psi
<b>THERMAL</b>			
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa), annealed	ASTM D648	75.9°C	168.6°F
Coefficient of Thermal Expansion	ASTM E831	66.3 µm/m/°C	36.8 µin/in/°F
<b>Electrical</b>			
Dielectric Strength, oil	ASTM D149	19.3 kV/mm	490 V/mil
<b>FLAMABILITY<sup>2</sup></b>			
Vertical Burn, 60-second	FAR 25.853(a)(i)	PASS	
Vertical Burn, 12-second	FAR 25.853(a)(ii)	PASS	
OSU Heat Release	FAR 25.853(d) Part IV	≤ 55/55	
NBS Smoke Density	FAR 25.853(d) Part V	≤ 150	

<sup>1</sup> Values based upon 3.20mm (0.125") sheet unless otherwise specified.  
<sup>2</sup> All thicknesses and colours  
 Not intended for specification purposes.



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This information supersedes all previously published data.