

KYDEX® 5555RCL

Recycle grade, low heat release aviation sheet

INTRODUCTION

KYDEX® 5555RCL is a proprietary, integrally coloured, high performance thermoplastic sheet specifically formulated to meet the fire safety needs of the aviation industry. KYDEX® 5555RCL is an environmentally sustainable solution containing 50% recycle content.

GENERAL INFORMATION

KYDEX® 5555RCL is formulated to exceed the fire safety needs of the aviation industry with a maximum heat release of 55/55 and smoke development of 150.

SUGGESTED APPLICATIONS

- Non-aesthetic hidden components where colour variation and minor surface imperfections are acceptable.
 - All hidden components are manufactured in 53976 Asphalt with wide colour tolerance.
- Select options are available for visible aesthetic customer facing parts with a narrower colour tolerance.
 - 53551 Warm Grey, 53233 Porch, 53261 Iron Safe, 52621 Maudlin, and 53976 Asphalt.

FEATURES

- Meets the stringent requirements of the FAR 25.853 paragraphs (a) and (d)
- Environmentally sustainable with a recycle content of 50%
- Cost effective solution for non-aesthetic, hidden parts
- Available in select colours and textures
- Excellent formability and fabrication characteristics

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 appLab™ department at 800.682.8758 for resources and Safety Data Sheets or visit our website: www.kydex.com.



Customer Collaboration

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Property	Test Method	Typical Value ¹	
PHYSICAL			
Specific Gravity	ASTM D792	1.52	
Water Absorption, 24 hr	ASTM D570	0.09%	
Rockwell Hardness, R-Scale	ASTM D785	105	
MECHANICAL			
Tensile Strength	ASTM D638	39.9 MPa	5,800 psi
Tensile Modulus	ASTM D638	3,309 MPa	480,000 psi
Flexural Strength	ASTM D790	68.9 MPa	10,000 psi
Flexural Modulus	ASTM D790	2,999 MPa	435,000 psi
Izod Impact, notched	ASTM D256	48 J/m	0.9 ft-lb _f /in
Gardner Drop Dart Impact, GE	ASTM D5420	12.7 J	112 in-lb _f
THERMAL			
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa) annealed	ASTM D648	72.8°C	163.0°F
Coefficient of Thermal Expansion	ASTM E831	66.3 µm/m/°C	36.8 µin/in/°F
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	18.7 kV/mm	475 V/mil
FLAMMABILITY ²			
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	Total: ≤55 kW/m² Total: ≤55 kW/m²	
NBS Smoke Density	FAR 25.853(d) Part V	Ds max ≤150	
¹ Values based upon 3.18mm (0.125") sheet unless otherwise specified. ² All thicknesses and colours Not intended for specification purposes.			



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