

KYDEX® 6565IM

High impact, low heat release injection molding compound for aviation application

INTRODUCTION

KYDEX® 6565IM is a high performance injection molding compound with integral colour specifically engineered to improve aircraft passenger safety.

GENERAL INFORMATION

KYDEX® 6565IM is designed for injection-molded parts to compliment KYDEX® thermoplastic sheet parts, eliminating visual variation due to dissimilar materials. It meets flammability and smoke development requirements outlined in Federal Aviation Regulations (FAR) 25.853 paragraphs (a) and (d).

SUGGESTED APPLICATIONS

- IFE bezels
- Armrests
- Side panels
- Trim pieces
- Accent parts
- Tray tables
- Seat backs
- Bump strips
- Other interior components

FEATURES

- Meets the stringent requirements of FAR 25.853 paragraphs (a) and (d) in all thicknesses and colours
- Excellent processing characteristics
- Available in endless integral colours through custom colour creation
- Chemical resistant
- Colour matching coordination with KYDEX® Thermoplastic Sheet
- Excellent bonding capability with KYDEX® Thermoplastic Sheet

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	1.47	
Water Absorption, 24 hr	ASTM D570	0.06%	
Rockwell Hardness, R-Scale	ASTM D785	100	
Melt Flow Index, 200°C/2.16kg	ASTM D1238	2.86g/10min	
Mold Shrinkage	ASTM D955	0.25 - 0.45%	
MECHANICAL			
Tensile Strength	ASTM D638	39.8 MPa	5,770 psi
Tensile Modulus	ASTM D638	2,799 MPa	406,000 psi
Poisson's Ratio	ASTM D638	0.399	
Flexural Strength	ASTM D790	61.2 MPa	8,880 psi
Flexural Modulus	ASTM D790	2,751 MPa	399,000 psi
Compressive Strength, yield	ASTM D695	46.7 MPa	6,780 psi
Compressive Modulus	ASTM D695	2,627 MPa	381,000 psi
Shear Strength	ASTM D732	40.7 MPa	5,910 psi
Bearing Strength, max	ASTM D953	185 MPa	26,900 psi
Gardner Drop Dart Impact, GE geometry	ASTM D5420	46.3 J	410 in-lb _f
THERMAL			
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa), unannealed	ASTM D648	65.1°C	149.1°F
Coefficient of Thermal Expansion	ASTM E831	72.7 µm/m/°C	40.4 µin/in/°F
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	19.7 kV/mm	500 V/mil
FLAMMABILITY²			
Vertical Burn, 60-second	FAR 25.853(a) Part 1 (a)(i)	Pass	
Vertical Burn, 12-second	FAR 25.853(a) Part 1 (a)(ii)	Pass	
OSU Heat Release	FAR 25.853(d) Part IV	Pass	
NBS Smoke Density	FAR 25.853(d) Part V	Pass	
¹ Values based upon 3.18mm (0.125") injection molded plaques unless otherwise specified. ² All thicknesses Not intended for specification purposes.			



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