

ALLEN® 5100WMG

Co-extruded, High Impact ASA/ABS, Medium Gloss Sheet

INTRODUCTION

ALLEN® 5100WMG is high impact ABS capped with medium gloss ASA for UV protection.

GENERAL INFORMATION

ALLEN® 5100WMG has been tested under laboratory conditions and has achieved a UL94 HB rating at 0.060 in (1.52mm) and above and meets the requirements of Federal Motor Vehicle Safety Standard No. 302 (FMVSS 302).

SUGGESTED APPLICATIONS

- Vehicle Exteriors
- Radomes
- Bus Hatches
- Sunroom Exteriors & Interiors
- Equipment Housings
- Marine Dashes & Components

FEATURES

- Custom color matching
- Excellent UV properties
- Edge trim easily used in future orders
- Medium gloss finish

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	1.05	
Density	ASTM D792	1.05 g/cm ³	0.038 lb/in ³
Water Absorption, equilibrium, 73°F	ASTM D570	0.37%	
MECHANICAL			
Tensile Strength	ASTM D638	40.3 MPa	5,840 psi
Tensile Modulus	ASTM D638	88.3 MPa	287,000 psi
Flexural Stress at 5% Strain	ASTM D790	61.9 MPa	8,980 psi
Flexural Modulus	ASTM D790	2,040.8 MPa	296,000 psi
Compressive Strength, yield	ASTM D695	48.8 MPa	7,080 psi
Shear Strength	ASTM D732	30.6 MPa	4,440 psi
Bearing Strength, 4% deflection	ASTM D953	20.2 MPa	2,930 psi
Bearing Strength, max.	ASTM D953	177.2 MPa	25,700 psi
Notched Izod Impact Resistance	ASTM D256	390 J/m	7.31 ft-lbs/in
Gardner Drop Dart Impact, GE	ASTM D5420	37.3 J	330 in-lb _y
THERMAL			
Heat Deflection Temperature (HDT) 264 psi (1.8 MPa), Unannealed	ASTM D648	79.4°C	175°F
Heat Deflection Temperature (HDT) 66 psi (0.45 MPa), Unannealed	ASTM D648	90.6°C	195°F
Coefficient of Thermal Expansion (TD)	ASTM E831	94.7 µm/m/°C	52.6 µin/in/°F
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	18.1 kV/mm	459 V/mil
FLAMMABILITY²			
Underwriters Laboratories, Inc® Component Recognition	UL Standard 94 ²	HB @ 1.60mm (0.063 in)	
Motor Vehicle Safety Standard	FMVSS 302	Passes	
¹ Values based upon 0.125" (3.17mm) sheet unless otherwise specified. ² ALLEN® 5100WMG has been tested under laboratory conditions and has passed UL 94HB criteria. SEKISUI KYDEX, LLC makes no warranty or guarantee that these products will meet UL 94HB in the part's final, finished configuration. Not intended for specification purposes.			



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