

ALLEN® 6300HG

Acrylic Capped, Medium Impact ABS, High Gloss Sheet

INTRODUCTION

ALLEN® 6300HG is high gloss acrylic capped ABS with excellent outdoor weathering, durability, and distinction of image.

GENERAL INFORMATION

ALLEN® 6300HG 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

- Lawn and Garden Equipment
- Marine Parts
- Heavy Equipment Exteriors
- Recreational Vehicles
- Kayaks

FEATURES

- Custom color matching
- UV protection
- Good abrasion resistance
- High gloss finish
- Excellent color and gloss retention
- Good chemical resistance

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

1305 Lincoln Ave. Holland MI 49423 USA
Phone: 800.823.1305, +1.616.694.3808
Email: info@kydex.com

appLab™

Phone: 800.682.8758
Email: applab@kydex.com

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PROPERTY	TEST METHOD	TYPICAL VALUE ¹	
PHYSICAL			
Specific Gravity	ASTM D792	1.06	
Density	ISO 1183	1.06 g/cm ³	0.038 lb/in ³
Water Absorption, equilibrium, 73°F	ISO 62	0.34%	
Rockwell Hardness, R-scale	ASTM D785	99	
MECHANICAL			
Tensile Strength	ASTM D638	41.0 MPa	5,950 psi
Tensile Modulus	ASTM D638	1,979 MPa	287,000 psi
Flexural Stress at 5% Strain	ASTM D790	64.7 MPa	9,390 psi
Flexural Modulus	ASTM D790	1,993 MPa	289,000 psi
Compressive Strength, yield	ASTM D695	49.7 MPa	7,210 psi
Shear Strength	ASTM D732	37.2 MPa	5,400 psi
Bearing Strength, 4% deflection	ASTM D953	20.9 MPa	3,030 psi
Bearing Strength, max.	ASTM D953	182.7 MPa	26,500 psi
Notched Izod Impact Resistance	ASTM D256	201.9 J/m	3.78 ft-lbs/in
Gardner Drop Dart Impact, GE	ASTM D5420	24.1 J	213 in-lb _i
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	97.5 µm/m/°C	54.2 µin/in/°F
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	19.6 kV/mm	497 V/mil
FLAMMABILITY²			
Underwriters Laboratories., Inc ® Component Recognition	UL Standard 94 ²	HB @ 1.52mm (0.060 in)	
Motor Vehicle Safety Standard	FMVSS 302	Passes	

¹ Values based upon 0.125" (3.17mm) sheet unless otherwise specified.

² ALLEN® 6300HG 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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