

ALLEN® 2160HG

Co-extruded, High Impact ABS, High Gloss Sheet

INTRODUCTION

ALLEN® 2160HG is a general purpose ABS that has high impact strength and a good cost to performance ratio to other materials like painted metal, FRP, aluminum, and other thermoplastics.

GENERAL INFORMATION

ALLEN® 2160HG 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

- Marine products
- Recreational vehicles
- Agricultural cab interiors
- Truck interiors
- Equipment covers
- P.O.P Displays

FEATURES

- Custom color matching
- Ease of processing
- Regrind compatible in future orders
- UV protective films available
- High gloss finish

ENVIRONMENTAL & SAFETY CONSIDERATIONS

SEKISUI KYDEX 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	
Water Absorption, 24hr	ASTM D570	0.31%	
Rockwell Hardness, R-Scale	ASTM D785	99	
MECHANICAL			
Tensile Strength	ASTM D638	5,060 psi	34.9 MPa
Tensile Modulus	ASTM D638	295,000 psi	2,034.0 MPa
Flexural Modulus	ASTM D790	264,000 psi	1,820.0 MPa
Flexural Stress at 5% Strain	ASTM D790	7,740 psi	53.4 MPa
Compressive Strength, yield	ASTM D695	7,3400 psi	47.5 MPa
Shear Strength	ASTM D732	5,430 psi	37.4 MPa
Bearing Strength, 4% deflection	ASTM D953	2,950 psi	20.3 MPa
Bearing Strength, max	ASTM D953	24,900 psi	171.7 MPa
Notch Izod Impact, 73°F	ASTM D256	5.2 ft-lbs/in	277.6 J/m
Gardner Drop Dart Impact, GE	ASTM D5420	148 in-lbf	16.7 J
THERMAL			
Heat Deflection Temperature (HDT) @264 psi (1.8 MPa), unannealed	ASTM D648	175°F	79.4°C
Heat Deflection Temperature (HDT) 66 psi (0.45 MPa), unannealed	ASTM D648	195°F	90.6°C
Coefficient of Thermal Expansion (MD)	ASTM E831	46.7 µin/in/°F	84 µm/m/°C
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	414 V/mil	16.3 kV/mm
FLAMABILITY			
Underwriters Laboratories, Inc ® Component Recognition	UL Standard 94 ²	HB @ 0.060 in (1.52mm)	
Motor Vehicle Safety Standard	FMVSS 302	PASS	
¹ Values based upon 0.125" (3.17mm) sheet unless otherwise specified.			
² ALLEN® 2160HG has been tested under laboratory conditions and has passed UL 94HB criteria. SEKISUI KYDEX 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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