

ALLEN® 2180HG

High Impact ABS, High Gloss Sheet

INTRODUCTION

ALLEN® 2180HG is a general purpose ABS that has high impact strength and a good cost to performance ratio to other materials like stainless steel and other thermoplastics.

GENERAL INFORMATION

ALLEN® 2180HG 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

- Mechanical covers and housings
- Beverage dispensers
- Food equipment housings

FEATURES

- Custom color matching
- Good forming properties
- Regrind compatible in future orders
- Excellent low temperature performance
- High gloss finish, high impact

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	1.06 g/cc	
Moisture Absorption, 24 hr	ASTM D570	0.28%	
Rockwell Hardness, R-Scale	ASTM D785	98	
MECHANICAL			
Tensile Strength, yield	ASTM D638	36.7 MPa	5,330 psi
Tensile Modulus	ASTM D638	2020.2 MPa	293,000 psi
Flexural Stress at 5% Strain	ASTM D790	61.5 MPa	8,920 psi
Flexural Modulus	ASTM D790	2,116.7 MPa	307,000 psi
Compressive Strength, yield	ASTM D695	49.6 MPa	7,190 psi
Shear Strength	ASTM D732	40.1 MPa	5,810 psi
Bearing Strength, 4% deflection	ASTM D953	180.6 MPa	4,040 psi
Bearing Strength, max.	ASTM D953	358.8 MPa	26,200 psi
Notched Izod Impact Resistance	ASTM D256	432 J/m	6.72 ft-lbs/in
Gardner Drop Dart Impact, GE	ASTM D5420	34.0 J	301 in-lbs _i
THERMAL			
Heat Deflection Temperature (HDT) 264 psi (1.8 MPa), Unannealed	ASTM D648	99.9°C	211.7°F
Heat Deflection Temperature (HDT) 66 psi (0.45 MPa), Unannealed	ASTM D648	104°C	219.1°F
Coefficient of Thermal Expansion (MD)	ASTM E831	90.1 µm/m/°C	50.1 µin/in/°F
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	17.4 kV/mm	442 V/mil
FLAMMABILITY			
Underwriters Laboratories, Inc ® Component Recognition	UL Standard 94 ²	HB @ 1.52mm (0.060in)	
Motor Vehicle Safety Standard	FMVSS 302	Pass	
¹ Values based upon injection molded resin. ² ALLEN® 2180HG 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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