

## ALLEN® 2185HG

Co-extruded, High Impact ABS, High Gloss Sheet

### INTRODUCTION

ALLEN® 2185HG 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® 2185HG 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, 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](http://www.kydex.com).



#### Customer Collaboration

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PROPERTY	TEST METHOD	TYPICAL VALUE <sup>1</sup>	
<b>PHYSICAL</b>			
Specific Gravity	ASTM D792	1.05 g/cc	
Moisture Absorption, 24 hr	ASTM D570	0.31%	
Rockwell Hardness, R-Scale	ASTM D785	99	
<b>MECHANICAL</b>			
Tensile Strength, yield	ASTM D638	34.9 MPa	5,060 psi
Tensile Modulus	ASTM D638	2034 MPa	295,000 psi
Flexural Stress at 5% Strain	ASTM D790	53.4 MPa	7,740 psi
Flexural Modulus	ASTM D790	1,820 MPa	264,000 psi
Compressive Strength, yield	ASTM D695	50.6 MPa	7,340 psi
Shear Strength	ASTM D732	37.4 MPa	5,430 psi
Bearing Strength, 4% deflection	ASTM D953	20.3 MPa	2,950 psi
Bearing Strength, max.	ASTM D953	171.7 MPa	24,900 psi
Notched Izod Impact Resistance	ASTM D256	279 J/m	5.2 ft-lbs/in
Gardner Drop Dart Impact, GE	ASTM D5420	16.7 J/m	148 in-lbs <sub>g</sub>
<b>THERMAL</b>			
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 (MD)	ASTM E831	84 µm/m/°C	46.7 µin/in/°F
<b>ELECTRICAL</b>			
Dielectric Strength, oil	ASTM D149	16.3 kV/mm	414 V/mil
<b>FLAMMABILITY</b>			
Underwriters Laboratories, Inc® Component Recognition	UL Standard 94 <sup>2</sup>	HB @ 1.52mm (0.060in)	
Motor Vehicle Safety Standard	FMVSS 302	Passes	
<sup>1</sup> Values based upon injection molded resin. <sup>2</sup> ALLEN® 2185HG 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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