

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 and Safety Considerations

SEKISUI SPI 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 Technical Service department at 800.682.8758 for resources or visit our website: <http://www.sekisui-spi.com>. For Safety Data Sheets, please call 800.325.3133.

SEKISUI SPI

Customer Service

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Physical Properties

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	7,340 psi	50.6 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
Notched Izod Impact Resistance	ASTM D256	5.2 ft-lbs/in	279 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	213.7 °F	101 °C
Heat Deflection Temperature (HDT) @66 psi (0.45 MPa), unannealed	ASTM D648	219.1 °F	104 °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
FLAMMABILITY			
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 injection molded resin ² ALLEN® 2185HG has been tested under laboratory conditions and has passed UL 94HB criteria. SEKISUI SPI makes no warranty or guarantee that these products will meet UL 94HB in the parts final, finished configuration. Not intended for specification purposes.			

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This information supersedes all previously published data.