

## ALLEN® 2155HG

Co-extruded, High Impact ABS, High Gloss Sheet

### Introduction

ALLEN® 2155HG 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® 2155HG 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
- 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 <sup>1</sup>	
<b>PHYSICAL</b>			
Specific Gravity	ASTM D792	1.03	
Water Absorption, 24hr	ASTM D570	0.27 %	
Rockwell Hardness, R-Scale	ASTM D785	93	
<b>MECHANICAL</b>			
Tensile Strength	ASTM D638	6,090 psi	42.0 MPa
Tensile Modulus	ASTM D638	277,000 psi	1909.8 MPa
Flexural Stress at 5% Strain	ASTM D790	9,190 psi	63.4 MPa
Flexural Modulus	ASTM D790	288,000 psi	1985.7 MPa
Compressive Strength, yield	ASTM D695	6,890 psi	47.5 MPa
Shear Strength	ASTM D732	5,690 psi	39.2 MPa
Bearing Strength, 4% deflection	ASTM D953	2,940 psi	20.3 MPa
Bearing Strength, max.	ASTM D953	25,700 psi	177.2 MPa
Notched Izod Impact Resistance	ASTM D256	5.3 ft-lbs/in	283.5 J/m
Notched Izod Impact Resistance @ -20°F (-29°C)	ASTM D256	3.1 ft-lbs/in	165.5 J/m
Gardner Drop Dart Impact, GE	ASTM D5420	408 in-lbf	46.1 J
Gardner Drop Dart Impact, GE @ -20°F (-29°C)	ASTM D5420	219 in-lbf	24.7 J
<b>THERMAL</b>			
Heat Deflection Temperature (HDT) 264 psi (1.8 MPa), Annealed	ASTM D648	195.8°F	91.0°C
Heat Deflection Temperature (HDT) 66 psi (0.45 MPa), Annealed	ASTM D648	205.2°F	96.2°C
Coefficient of Thermal Expansion (TD)	ASTM E831	54.3 µin/in/°F	97.7 µm/m/°C
<b>ELECTRICAL</b>			
Dielectric Strength, oil	ASTM D149	517 V/mil	20.4 kV/mm
<b>FLAMMABILITY</b>			
Underwriters Laboratories, Inc. <sup>®</sup> Component Recognition	UL Standard 94 <sup>2</sup>	HB @ 0.060 in (1.52mm)	
Motor Vehicle Safety Standard	FMVSS 302	PASSES	
<sup>1</sup> Values based upon 0.125" (3.17mm) sheet unless otherwise specified. <sup>2</sup> ALLEN® 2155HG 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 part's final, finished configuration. Not intended for specification purposes.			

### SEKISUI SPI

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This information supersedes all previously published data.