

ALLEN® 2115HG

Co-extruded, Medium Impact ABS, High Gloss Sheet

Introduction

ALLEN® 2115HG is a general purpose ABS that has medium impact strength and a good cost to performance ratio.

General Information

ALLEN® 2115HG 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

- Covers and Housings
- Vehicle Interiors
- Displays
- Signs

Features

- Custom color matching
- Good forming properties
- Edge trim easily used into 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 | 1.08 g/cc | |
| Water Absorption, 24hr | ASTM D570 | 0.27 % | |
| Rockwell Hardness, R-Scale | ASTM D785 | 101 | |
| MECHANICAL | | | |
| Tensile Strength @ 23°C (73°F) | ASTM D638 | 5,120 psi | 35.3 MPa |
| Tensile Modulus @ 23°C (73°F) | ASTM D638 | 293,000 psi | 2,020.2 MPa |
| Flexural Modulus @ 23°C (73°F) | ASTM D790 | 7,580 psi | 52.3 MPa |
| Flexural Stress at 5% Strain @ 23°C (73°F) | ASTM D790 | 303,000 psi | 2,089.1 MPa |
| Compressive Strength, yield | ASTM D695 | 7,540 psi | 52.0 MPa |
| Shear Strength | ASTM D732 | 5,330 psi | 36.7 MPa |
| Bearing Strength, 4% deflection | ASTM D953 | 3,590 psi | 24.8 MPa |
| Bearing Strength, max. | ASTM D953 | 24,000 psi | 165.5 MPa |
| Notched Izod Impact Resistance @ 23°C (73°F) | ASTM D256 | 3.68 ft-lbs/in | 196.5 J/m |
| Gardner Drop Dart Impact, GE @ 23°C (73°F) | ASTM D5420 | 220 in-lbf | 24.9 J |
| THERMAL | | | |
| Heat Deflection Temperature (HDT) @264psi (1.8MPa), annealed | ASTM D648 | 215.5°F | 102°C |
| Heat Deflection Temperature (HDT) @66psi (0.45MPa), annealed | ASTM D648 | 220.8°F | 105°C |
| Coefficient of Thermal Expansion (MD) | ASTM E831 | 80.1 µin/in/°F | 44.5 µm/m/°C |
| ELECTRICAL | | | |
| Dielectric Strength, oil | ASTM D149 | 467 V/mil | 18.4 kV/mm |
| FLAMABILITY | | | |
| Motor Vehicle Safety Standard | Component Recognition | Pass | |
| ¹ Values based upon injection molded resin ² ALLEN® 2115HG 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. | | | |

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