

ALLEN® 2170HG

Co-extruded, Medium Impact ABS, High Gloss Sheet

Introduction

ALLEN® 2170HG is a general purpose ABS that has high gloss, medium impact strength, and a good cost to performance ratio.

General Information

ALLEN® 2170HG 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® 2170HG 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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