

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® 2175HG 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
- Display
- Signs

FEATURES

- Custom color matching
- Good forming and fabricating properties
- Edge trim easily used in future orders
- High gloss finish
- UV protective films available

ENVIRONMENTAL & SAFETY CONSIDERATIONS

SEKISUI KYDEX 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.



Customer Collaboration

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Property	Test Method	Typical Value ¹	
PHYSICAL			
Specific Gravity	ASTM D792	1.08	
Water Absorption, 24hr	ASTM D570	0.27%	
Rockwell Hardness, R-Scale	ASTM D785	101	
MECHANICAL			
Tensile Strength	ASTM D638	5,120 psi	35.3 MPa
Tensile Modulus	ASTM D638	293,000	2,020 MPa
Flexural Modulus	ASTM D790	303,000 psi	2,089.1 MPa
Flexural Strength	ASTM D790	7,580 psi	52.3 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
Notch Izod Impact, 73°F	ASTM D256	3.68 ft-lbs/in	196.5 J/m
Gardner Drop Dart Impact, GE	ASTM D5420	220 in-lbf	24.9 J
THERMAL			
Heat Deflection Temperature (HDT) @264 psi (1.8 MPa), unannealed	ASTM D648	215.5°F	102°C
Heat Deflection Temperature (HDT) 66 psi (0.45 MPa), 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
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 KYDEX 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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