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 & 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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KYDEX THERMOPLASTICS

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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	93	
MECHANICAL			
Tensile Strength	ASTM D638	6,090 psi	42.0 MPa
Tensile Modulus	ASTM D638	277,000 psi	1,909.8 MPa
Flexural Modulus	ASTM D790	288,000 psi	1,985.7 MPa
Flexural Stress at 5% Strain	ASTM D790	9,190 psi	63.4 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
Notch Izod Impact, 73°F	ASTM D256	5.3 ft-lbs/in	283.0 J/m
Notch Izod Impact, -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
THERMAL			
Heat Deflection Temperature (HDT) @264 psi (1.8 MPa), Annealed	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
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	517 V/mil	20.4 kV/mm
FLAMABILITY			
Underwriters Laboratories., Inc ® Component Recognition	UL Standard 94[2]	HB @ 0.060 in (1.52mm)	
Motor Vehicle Safety Standard	FMVSS 302	PASSES	

1 Values based upon 0.125" (3.17mm) sheet unless otherwise specified.

2 ALLEN® 2155HG 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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