

## ALLEN® 5165WHG

Co-extruded, High Impact ASA/ABS, High Gloss Sheet

### INTRODUCTION

**ALLEN® 5165WHG is high impact ABS capped with a high gloss ASA for UV protection.**

### GENERAL INFORMATION

ALLEN® 5165WHG 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

- Heavy equipment exterior and interior applications
- Agricultural equipment exterior and interior applications
- Heavy truck exterior and interior applications
- Marine exterior applications
- Radomes & Cell tower antennas
- Outdoor housings & machinery covers

### FEATURES

- Excellent UV properties
- Custom color matching
- Good forming properties
- Edge trim easily used in future orders
- High gloss, High impact
- Good low temperature performance

### ENVIRONMENTAL & SAFETY CONSIDERATIONS

SEKISUI KYDEX, LLC 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](http://www.kydex.com).



#### Customer Collaboration

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PROPERTY	TEST METHOD	TYPICAL VALUE <sup>1</sup>	
<b>PHYSICAL</b>			
Specific Gravity	ASTM D792	1.06	
Density	ASTM D792	1.06 g/cm <sup>3</sup>	0.038 lb/in <sup>3</sup>
Water Absorption, equilibrium, 73°F	ASTM D570	0.28%	
Rockwell Hardness, R-scale	ASTM D785	98	
<b>MECHANICAL</b>			
Tensile Strength	ASTM D638	36.7 MPa	5,330 psi
Tensile Modulus	ASTM D638	2020.2 MPa	293,000 psi
Flexural Modulus	ASTM D790	2116.7 MPa	307,000 psi
Flexural Stress at 5% Strain	ASTM D790	61.5 MPa	8,920 psi
Compressive Strength, yield	ASTM D695	49.6 MPa	7,190 psi
Shear Strength	ASTM D732	40.1 MPa	5,810 psi
Bearing Strength, 4% deflection	ASTM D953	27.9 MPa	4,040 psi
Bearing Strength, max.	ASTM D953	180.6 MPa	26,200 psi
Notched Izod Impact Resistance @ 23°C (73°F)	ASTM D256	358.8 J/m	6.72 ft-lbs/in
Notched Izod Impact Resistance @ -40°C (-40°F)	ASTM D256	117.4 J/m	2.2 ft-lbs/in
Gardner Drop Dart Impact, GE @ 23°C (73°F)	ASTM D5420	34.0 J	301 in-lb <sub>f</sub>
<b>THERMAL</b>			
Heat Deflection Temperature (HDT) 264 psi (1.8 MPa), Annealed	ASTM D648	99.9°C	211.7°F
Heat Deflection Temperature (HDT) 66 psi (0.45 MPa), Annealed	ASTM D648	104°C	219.1°F
Coefficient of Thermal Expansion (TD)	ASTM E831	90.1 µm/m/°C	50.1 µin/in/°F
<b>ELECTRICAL</b>			
Dielectric Strength, oil	ASTM D149	17.4 kV/mm	442 V/mil
<b>FLAMMABILITY<sup>2</sup></b>			
Underwriters Laboratories, Inc ® Component Recognition	UL Standard 94 <sup>2</sup>	HB @ 1.52mm (0.060 in)	

<sup>1</sup> Values based upon 0.125" (3.17mm) sheet unless otherwise specified.  
<sup>2</sup> ALLEN® 5165WHG has been tested under laboratory conditions and has passed UL 94HB criteria. SEKISUI KYDEX, LLC 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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Because we cannot anticipate or control the many different conditions under which this information and our products may be used, we do not guarantee the applicability of the accuracy of this information or the suitability of our products in any given situation. Users should conduct their own tests to determine the suitability of each product for their particular purposes. Data in the physical property table represents typical values and are to serve only as a guide for engineering design. Results are obtained from specimens under ideal laboratory conditions. Right to change physical properties as a result of technical progress is reserved. The products discussed are sold without warranty of merchantability or fitness for a particular use, either expressed or implied, except as provided in our standard terms and conditions of sale. Buyer assumes all responsibility for loss or damage arising from the handling and use of our products, whether done in accordance with directions or not. In no event shall the supplier or the manufacturer be liable for incidental or consequential damages. Also, statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent. Consult local code and regulatory agencies for specific requirements regarding code compliance, transporting, processing, recycling and disposal of our product. Product not intended for use as a heat resistant surface. Texture, product grade and other conditions may cause variations in appearance.