

ALLEN® 5200WHG

Co-extruded, HighGloss ASA, Very High Impact PC/ABS

INTRODUCTION

ALLEN® 5200WHG Sheet has an excellent weatherable performance and property retention with high impact strength, high heat deflection, and stiffness.

GENERAL INFORMATION

ALLEN® 5200WHG 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

- Engine Covers
- Heavy Truck
- Recreational Vehicles
- Bus / Van
- Auto After-Market
- Agriculture / Construction Equipment

FEATURES

- Wide range of colors
- Excellent physical property retention
- Good low temperature impact
- High heat deflection temperature
- Improved performance over ABS
- Higher modulus (Increased stiffness)

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.



Customer Collaboration

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PROPERTY	TEST METHOD	TYPICAL VALUE ¹	
PHYSICAL			
Specific Gravity	ASTM D792	1.13	
Density	ASTM D792	1.13 g/cm ³	0.041 lb/in ³
Water Absorption, equilibrium, 73°F	ASTM D570	0.17%	
Rockwell Hardness, R-scale	ASTM D785	111	
MECHANICAL			
Tensile Strength	ASTM D638	48.0 MPa	6,960 psi
Tensile Modulus	ASTM D638	2096.0 MPa	304,000 psi
Flexural Modulus	ASTM D790	2227.0 MPa	323,000 psi
Flexural Stress at 5% Strain	ASTM D790	80.0 MPa	11,600 psi
Compressive Strength, yield	ASTM D695	59.2 MPa	8,590 psi
Shear Strength	ASTM D732	54.0 MPa	7,830 psi
Bearing Strength, 4% deflection	ASTM D953	27.9 MPa	4,040 psi
Bearing Strength, max.	ASTM D953	228.2 MPa	33,100 psi
Notched Izod Impact Resistance @ 23°C (73°F)	ASTM D256	523.9 J/m	9.81 ft-lbs/in
Notched Izod Impact Resistance @ -29°C (-20°F)	ASTM D256	438.3 J/m	8.21 ft-lbs/in
Gardner Drop Dart Impact, GE @ 23°C (73°F)	ASTM D5420	50.1 J	443 in-lb _f
Gardner Drop Dart Impact, GE @ -29°C (-20°F)	ASTM D5420	59.0 J	522 in-lb _f
THERMAL			
Heat Deflection Temperature (HDT) 264 psi (1.8 MPa), Unannealed	ASTM D648	101°C	251.4°F
Heat Deflection Temperature (HDT) 66 psi (0.45 MPa), Unannealed	ASTM D648	122°C	264.0°F
Coefficient of Thermal Expansion (TD)	ASTM E831	77 µm/m/°C	42.8 µin/in/°F
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	21.7 kV/mm	552 V/mil
FLAMMABILITY²			
Underwriters Laboratories, Inc ® Component Recognition	UL Standard 94 ²	HB @ 1.52mm (0.060 in)	
Motor Vehicle Safety Standard	FMVSS 302	PASS	
¹ Values based upon 0.125" (3.17mm) sheet unless otherwise specified. ² ALLEN® 5200WHG 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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