

## ALLEN® 5200WHG

High Gloss 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 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 <sup>1</sup>	
<b>PHYSICAL</b>			
Specific Gravity	ASTM D792	1.13	
Water Absorption, 24hr	ASTM D570	0.17 %	
Rockwell Hardness, R-Scale	ASTM D785	111	
<b>MECHANICAL</b>			
Tensile Strength	ASTM D638	6,960 psi	48.0 MPa
Tensile Modulus	ASTM D638	304,000 psi	2096.0 MPa
Flexural Modulus	ASTM D790	323,000 psi	2227.0 MPa
Flexural Stress at 5% Strain	ASTM D790	1,116 psi	8.0 MPa
Compressive Strength, yield	ASTM D695	8,590 psi	59.2 MPa
Shear Strength	ASTM D732	7,830 psi	54.0 MPa
Bearing Strength, 4% deflection	ASTM D953	4,040 psi	27.9 MPa
Bearing Strength, max.	ASTM D953	33,100 psi	228.2 MPa
Notched Izod Impact Resistance	ASTM D256	9.81 ft-lbs/in	523.9 J/m
Notched Izod Impact Resistance @ -29°C (-20°F)	ASTM D256	8.21 ft-lbs/in	438.3 J/m
Gardner Drop Dart Impact, GE	ASTM D5420	443 in-lbf	50.1 J
Gardner Drop Dart Impact, GE @ -29°C (-20°F)	ASTM D5420	522 in-lbf	59.0 J
<b>THERMAL</b>			
Heat Deflection Temperature (HDT) @264 psi (1.8 MPa), unannealed	ASTM D648	251.4 °F	101 °C
Heat Deflection Temperature (HDT) @66 psi (0.45 MPa), unannealed	ASTM D648	264.0 °F	122 °C
Coefficient of Thermal Expansion (MD)	ASTM E831	42.8 µin/in/°F	77 µm/m/°C
<b>ELECTRICAL</b>			
Dielectric Strength, oil	ASTM D149	552 V/mil	21.7 kV/mm
<b>FLAMMABILITY</b>			
Underwriters Laboratories., Inc ® Component Recognition	UL Standard 94 <sup>2</sup>	HB @ 0.060 in (1.52mm)	
Motor Vehicle Safety Standard	FMVSS 302	PASS	
<sup>1</sup> Values based upon 0.125" (3.17mm) sheet unless otherwise specified. <sup>2</sup> ALLEN® 5200WHG 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 parts final, finished configuration. Not intended for specification purposes.			

### SEKISUI SPI

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This information supersedes all previously published data.