

ALLEN® 5150WMG

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

Introduction

ALLEN® 5150WMG is high impact ABS capped with a medium gloss ASA for UV protection.

General Information

ALLEN® 5150WMG 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

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

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 ¹	
PHYSICAL			
Specific Gravity	ASTM D792	1.06	
Water Absorption, 24hr	ASTM D570	0.28 %	
Rockwell Hardness, R-Scale	ASTM D785	98	
MECHANICAL			
Tensile Strength	ASTM D638	5,330 psi	36.7 MPa
Tensile Modulus	ASTM D638	293,000 psi	2020.2 MPa
Flexural Modulus	ASTM D790	307,000 psi	2116.7 MPa
Flexural Stress at 5% Strain	ASTM D790	8,920 psi	61.5 MPa
Compressive Strength, yield	ASTM D695	7,190 psi	49.6 MPa
Shear Strength	ASTM D732	5,810 psi	40.1 MPa
Bearing Strength, 4% deflection	ASTM D953	4,040 psi	27.9 MPa
Bearing Strength, max.	ASTM D953	26,200 psi	180.6 MPa
Notched Izod Impact Resistance @ 23°C (73°F)	ASTM D256	6.72 ft-lbs/in	358.8 J/m
Notched Izod Impact Resistance @ -40°C (-40°F)	ASTM D256	2.2 ft-lbs/in	117.4 J/m
Gardner Drop Dart Impact, GE @ 23°C (73°F)	ASTM D5420	301 in-lbf	34.0 J
THERMAL			
Heat Deflection Temperature (HDT) @264psi (1.8MPa), annealed	ASTM D648	211.7°F	99.9°C
Heat Deflection Temperature (HDT) @66psi (0.45MPa), annealed	ASTM D648	219.1°F	104°C
Coefficient of Thermal Expansion (MD)	ASTM E831	50.1 µin/in/°F	90.1 µm/m/°C
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	442 V/mil	17.4 kV/mm
FLAMMABILITY			
Underwriters Laboratories, Inc® Component Recognition	UL Standard 94 ²	HB @ 0.060 in (1.52mm)	
¹ Values based upon 0.125" (3.17mm) sheet unless otherwise specified ² ALLEN® 5150WMG 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			

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This information supersedes all previously published data.