

ALLEN® 5100WMG

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

Introduction

ALLEN® 5100WMG is high impact ABS capped with medium gloss ASA for UV protection.

General Information

ALLEN® 5100WMG 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

- Vehicle Exteriors
- Radomes
- Bus Hatches
- Sunroom Exteriors & Interiors
- Equipment Housings
- Marine Dashes & Components

Features

- Custom color matching
- Excellent UV properties
- Edge trim easily used into future orders
- Medium gloss finish

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

1305 Lincoln Ave. Holland MI 49423 USA
Phone: 800.823.1305
Outside the US: +1.616.394.3808
Fax: 800.832.5536, +1.616.394.3875
Email: info@sekisui-spi.com

Technical Service

Phone: 800.682.8758
Fax: +1.570.387.8722
Outside the US: +1.570.387.6997
techservice@sekisui-spi.com

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Physical Properties

Property	Test Method	Typical Value ¹	
PHYSICAL			
Specific Gravity	ASTM D792	1.05	
Water Absorption, 24hr	ASTM D570	0.37 %	
Rockwell Hardness, R-Scale	ASTM D785	98	
MECHANICAL			
Tensile Strength	ASTM D638	5,840 psi	40.3 MPa
Tensile Modulus	ASTM D638	287,000 psi	88.3 MPa
Flexural Modulus	ASTM D790	296,000 psi	2,040.8 MPa
Flexural Stress at 5% Strain	ASTM D790	8,980 psi	61.9 MPa
Compressive Strength, yield	ASTM D695	7,080 psi	48.8 MPa
Shear Strength	ASTM D732	4,440 psi	30.6 MPa
Bearing Strength, 4% deflection	ASTM D953	2,930 psi	20.2 MPa
Bearing Strength, max.	ASTM D953	25,700 psi	177.2 MPa
Notched Izod Impact Resistance	ASTM D256	7.31 ft-lbs/in	390 J/m
Gardner Drop Dart Impact, GE	ASTM D5420	330 in-lbf	37.3 J
THERMAL			
Heat Deflection Temperature (HDT) @264 psi (1.8 MPa), unannealed	ASTM D648	210.8°F	99.4°C
Heat Deflection Temperature (HDT) @66 psi (0.45 MPa), unannealed	ASTM D648	215.5°F	102°C
Coefficient of Thermal Expansion (MD)	ASTM E831	52.6 µin/in/°F	94.7 µm/m/°C
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	459 V/mil	18.1 kV/mm
FLAMMABILITY			
Underwriters Laboratories, Inc. [®] Component Recognition	UL Standard 94 ²	HB @ 0.060 in (1.52mm)	
Motor Vehicle Safety Standard	FMVSS 302	PASS	
¹ Values based upon 0.125" (3.17mm) sheet unless otherwise specified. ² ALLEN® 5100WMG 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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