

ALLEN® 5225WLG

Co-extruded, Very High Impact ASA/PCABS, Lower Gloss Sheet

Introduction

ALLEN® 5225WLG Sheet has an excellent weatherable performance and property retention with high impact strength, high heat deflection, and stiffness.

General Information

ALLEN® 5225WLG has been tested under laboratory conditions 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
- Excellent 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 ¹	
PHYSICAL			
Specific Gravity	ASTM D792	1.12	
Water Absorption, 24hr	ASTM D570	0.22 %	
Rockwell Hardness, R-Scale	ASTM D785	104	
MECHANICAL			
Tensile Strength	ASTM D638	6,190 psi	42.7 MPa
Tensile Modulus	ASTM D638	289,000 psi	1992.6 MPa
Flexural Modulus	ASTM D790	285,000 psi	1965.0 MPa
Flexural Stress at 5% Strain	ASTM D790	9,500 psi	65.5 MPa
Compressive Strength, yield	ASTM D695	7,690 psi	53.0 MPa
Shear Strength	ASTM D732	5,840 psi	40.3 MPa
Bearing Strength, 4% deflection	ASTM D953	3,660 psi	25.2 MPa
Bearing Strength, max.	ASTM D953	29,600 psi	204.0 MPa
Notched Izod Impact Resistance	ASTM D256	8.22 ft-lbs/in	438.8 J/m
Notched Izod Impact Resistance @ -29°C (-20°F)	ASTM D256	2.85 ft-lbs/in	152.1 J/m
Gardner Drop Dart Impact, GE	ASTM D5420	602 in-lbf	68.0 J
Gardner Drop Dart Impact, GE @ -29°C (-20°F)	ASTM D5420	>640 in-lbf	>72.3 J
THERMAL			
Heat Deflection Temperature (HDT) @264psi (1.8MPa), annealed	ASTM D648	246.2°F	119°C
Heat Deflection Temperature (HDT) @66psi (0.45MPa), annealed	ASTM D648	273.2°F	134°C
Coefficient of Thermal Expansion (MD)	ASTM E831	44.5 µin/in/°F	80.0 µm/m/°C
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	>333 V/mil	>13.1 kV/mm
FLAMMABILITY			
Motor Vehicle Safety Standard	FMVSS 302	PASS	
¹ Values based upon 0.180" (4.57mm) sheet unless otherwise specified Not intended for specification purposes.			

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