ALLEN THERMOPLASTICS

ALLEN® 6300HG

Acrylic Capped, Medium Impact ABS, High Gloss Sheet

Introduction

ALLEN® 6300HG is high gloss acrylic capped ABS with excellent outdoor weathering, durability and distinction of image.

General Information

ALLEN® 6300HG is Underwriters Laboratories, Inc® recognized for UL Std 94 HB (UL94) and Federal Motor Vehicle Safety Standard No. 302 (FMVSS 302).

Suggested Applications

- Lawn and Garden Equipment
- Marine Parts
- Heavy Equipment Exteriors
- Recreational Vehicles
- Kayaks

Features

- Custom color matching
- UV protection
- Good abrasion resistance
- High gloss finish
- Excellent color and gloss retention
- Good chemical resistance

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
ISO 9001:2008 and 14001:2004 Certified

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Technical Data Sheet

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Physical Properties

Property	Test Method	Typical Value[1]	
PHYSICAL			
Specific Gravity	ASTM D792	1.06	
Specific Gravity	ASTM D570	0.34 %	
Specific Gravity	ASTM D785	99	
MECHANICAL			
Tensile Strength @ 23 °C (73 °F)	ASTM D638	5,950 psi	41.0 MPa
Tensile Modulus @ 23 °C (73 °F)	ASTM D638	287,000 psi	1978.8 MPa
Flexural Modulus @ 23 °C (73 °F)	ASTM D790	9,390 psi	64.7 MPa
Flexural Stress at 5% Strain @ 23 °C (73 °F)	ASTM D790	289,000 psi	1992.6 MPa
Compressive Strength, yield	ASTM D695	7,210 psi	49.7 MPa
Shear Strength	ASTM D732	5,400 psi	37.2 MPa
Bearing Strength, 4% deflection	ASTM D953	3,030 psi	20.9 MPa
Bearing Strength, max.	ASTM D953	26,500 psi	182.7 MPa
Notched Izod Impact Resistance @ 23 °C (73 °F)	ASTM D256	3.78 ft-lbs/in	201.9 J/m
Gardner Drop Dart Impact, GE @ 23 °C (73 °F)	ASTM D5420	213 in-lbf	24.1 J
THERMAL			
Heat Deflection Temperature (HDT) 66 psi (0.45 MPa), unannealed	ASTM D648	200.3 °F	93.6 °C
Heat Deflection Temperature (HDT) 66 psi (0.45 MPa), unannealed	ASTM D648	208.8 °F	98.3 °C
Coefficient of Thermal Expansion (MD)	ASTM E831	54.2 µin/in/°F	97.5 µm/m/°C
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	497 V/mil	19.6 kV/mm
FLAMABILITY			
Underwriters Laboratories., Inc® Component Recognition	UL Standard 94 HB	0.060 in	
Motor Vehicle Safety Standard	FMVSS 302	PASSES	

1 Values based upon 0.125" (3.17mm) sheet unless otherwise specified.
Not intended for specification purposes.

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