

ALLEN® 6280HG

Acrylic Capped, Medium Impact ABS, High Gloss Sheet

Introduction

ALLEN® 6280HG is designed especially for outdoor product applications that require protection from UV exposure. It also works well for indoor applications when specialty colors, metallic effects and distinction of image are needed.

General Information

ALLEN® 6280HG has been tested under laboratory conditions and has achieved a UL94 HB rating at 0.060 in (1.52mm) and above.

Suggested Applications

- Automotive interiors and exteriors
- Kayak decks & hulls
- Shower surrounds
- Bathtubs
- Marine Dash and components

Features

- Excellent weatherability
- High gloss finish
- Excellent distinction of image

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	0.34 %	
Rockwell Hardness, R-Scale	ASTM D785	99	
MECHANICAL			
Tensile Strength	ASTM D638	5,950 psi	41.0 MPa
Tensile Modulus	ASTM D638	287,000 psi	1,979 MPa
Flexural Modulus	ASTM D790	289,000 psi	1,993 MPa
Flexural Stress at 5% Strain	ASTM D790	9,390 psi	64.7 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	ASTM D256	3.78 ft-lbs/in	201.9 J/m
Gardner Drop Dart Impact, GE	ASTM D5420	213 in-lbf	24.1 J
THERMAL			
Heat Deflection Temperature (HDT) 264 psi (1.8 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
FLAMMABILITY			
Underwriters Laboratories, Inc. [®] Component Recognition	UL Standard 94 ²	HB @ 0.060 in (1.52mm)	
Motor Vehicle Safety Standard	FMVSS 302	PASSES	

¹ Values based upon injection molded resin.

² ALLEN® 6280HG 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 part's final, finished configuration.
Not intended for specification purposes.

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This information supersedes all previously published data.