

## ALLEN® 6000

Acrylic Capped, Medium Impact ABS, High Gloss Sheet

### Introduction

ALLEN® 6000 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® 6000 is created with a unique three-layer extrusion process to enable its unique set of properties and 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
- Radomes
- Cell antenna covers
- 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 <sup>1</sup>	
<b>PHYSICAL</b>			
Specific Gravity	ASTM D792	1.05	
Water Absorption, 24hr	ASTM D570	0.28 %	
Rockwell Hardness, R-Scale	ASTM D785	101	
<b>MECHANICAL</b>			
Tensile Strength	ASTM D638	5,820 psi	40.1 MPa
Tensile Modulus	ASTM D638	294,000 psi	2,027.1 MPa
Flexural Modulus	ASTM D790	312,000 psi	2,151.2 MPa
Flexural Stress at 5% Strain	ASTM D790	10,100 psi	69.6 MPa
Compressive Strength, yield	ASTM D695	7,330 psi	50.5 MPa
Shear Strength	ASTM D732	5,960 psi	41.1 MPa
Bearing Strength, 4% deflection	ASTM D953	3,530 psi	24.3 MPa
Bearing Strength, max.	ASTM D953	27,200 psi	187.5 MPa
Notched Izod Impact Resistance	ASTM D256	3.85 ft-lbs/in	205.6 J/m
Gardner Drop Dart Impact, GE	ASTM D5420	252 in-lbf	28.5 J
<b>THERMAL</b>			
Heat Deflection Temperature (HDT) @264 psi (1.8 MPa), unannealed	ASTM D648	200.7°F	93.8°C
Heat Deflection Temperature (HDT) @66 psi (0.45 MPa), unannealed	ASTM D648	207.7°F	97.7°C
Coefficient of Thermal Expansion (MD)	ASTM E831	51 µin/in/°F	91.9 µm/m/°C
<b>FLAMMABILITY</b>			
Underwriters Laboratories, Inc. <sup>®</sup> Component Recognition	UL Standard 94 <sup>2</sup>	HB @ 0.060 in (1.52mm)	
Motor Vehicle Safety Standard	FMVSS 302	PASS	
<sup>1</sup> Values based upon 0.125" (3.17mm) sheet unless otherwise specified. <sup>2</sup> ALLEN® 6000 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.