

## 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 & SAFETY CONSIDERATIONS

SEKISUI KYDEX, LLC 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 appLab™ department at 800.682.8758 for resources and Safety Data Sheets or visit our website: [www.kydex.com](http://www.kydex.com).



#### Customer Collaboration

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PROPERTY	TEST METHOD	TYPICAL VALUE <sup>1</sup>	
<b>PHYSICAL</b>			
Specific Gravity	ASTM D792	1.05	
Density	ISO 1183	1.05 g/cm <sup>3</sup>	0.038 lb/in <sup>3</sup>
Water Absorption, equilibrium, 73°F	ISO 62	0.28%	
Rockwell Hardness, R-scale	ASTM D785	101	
<b>MECHANICAL</b>			
Tensile Strength	ASTM D638	40.1 MPa	5,820 psi
Tensile Modulus	ASTM D638	2,027 MPa	294,000 psi
Flexural Stress at 5% Strain	ASTM D790	69.6 MPa	10,100 psi
Flexural Modulus	ASTM D790	2,151 MPa	312,000 psi
Compressive Strength, yield	ASTM D695	50.5 MPa	7,330 psi
Shear Strength	ASTM D732	41.1 MPa	5,960 psi
Bearing Strength, 4% deflection	ASTM D953	24.3 MPa	3,530 psi
Bearing Strength, max.	ASTM D953	187.5 MPa	27,200 psi
Notched Izod Impact Resistance	ASTM D256	205.6 J/m	3.85 ft-lbs/in
Gardner Drop Dart Impact, GE	ASTM D5420	28.5 J	252 in-lb <sub>i</sub>
<b>THERMAL</b>			
Heat Deflection Temperature (HDT) 264 psi (1.8 MPa), Unannealed	ASTM D648	79.4°C	175°F
Heat Deflection Temperature (HDT) 66 psi (0.45 MPa), Unannealed	ASTM D648	90.6°C	195°F
Coefficient of Thermal Expansion (TD)	ASTM E831	91.9 µm/m/°C	51 µin/in/°F
<b>FLAMMABILITY<sup>2</sup></b>			
Underwriters Laboratories., Inc @ Component Recognition	UL Standard 94 <sup>2</sup>	HB @ 1.52mm (0.060 in)	
Motor Vehicle Safety Standard	FMVSS 302	Passes	
<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 KYDEX, LLC 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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