

## ALLEN® 4100F

FDA grade, high impact ABS, high gloss sheet

### INTRODUCTION

ALLEN® 4100F is a general purpose ABS that has high impact strength and excellent forming properties.

### GENERAL INFORMATION

ALLEN® 4100F has been tested under laboratory conditions and has achieved a UL94 HB rating at 0.060 in (1.52mm) and above and meets the requirements of Federal Motor Vehicle Safety Standard No. 302 (FMVSS 302) and US Food And Drug Administration 21 CFR 181.32 (Acrylonitrile copolymers and resins).

### SUGGESTED APPLICATIONS

- Medical equipment housings
- Food equipment trays & housings
- Display signs

### FEATURES

- Custom color matching
- Good forming and fabricating properties
- Edge trim easily used into future orders
- FDA 21 CFR 181.32 compliant
- Medium to high gloss finish

### 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

1305 Lincoln Ave. Holland MI 49423 USA  
Phone: 800.823.1305, +1.616.694.3808  
Email: [info@kydex.com](mailto:info@kydex.com)

#### appLab™

Phone: 800.682.8758  
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Property	Test Method	Typical Value <sup>1</sup>	
<b>PHYSICAL</b>			
Specific Gravity	ASTM D792	1.02 - 1.05	
Gloss, 60° Angle	ASTM D523	80%	
<b>MECHANICAL</b>			
Tensile Strength	ASTM D638	5,100 psi	35.1 MPa
Flexural Modulus	ASTM D790	370,000 psi	2,551.0 MPa
Flexural Strength	ASTM D790	11,300 psi	77.9 MPa
Notched Izod Impact, 23 °C (73 °F)	ASTM D256	8.0 ft-lb/in	427 J/m
Notched Izod Impact, -17 °C (0 °F)	ASTM D256	2.7 ft-lb/in	144 J/m
<b>THERMAL</b>			
Heat Deflection Temperature (HDT) @66 psi (.45 MPa), unannealed	ASTM D648	195 °F	90.6 °C
Mold Shrinkage	ASTM D955	0.004 - 0.007 in/in	
<b>FLAMMABILITY</b>			
Underwriters Laboratories, Inc. Component Recognition	UL Standard 94 <sup>2</sup>	HB @ 0.060 in (1.52mm)	
Motor Vehicle Safety Standard	FMVSS 302	PASS	
<p><sup>1</sup> Values based upon injection molded resin.</p> <p><sup>2</sup> ALLEN® 4100F 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.</p>			



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