

ALLEN® 4175F

FDA Grade, High Impact ABS, High Gloss Sheet

Introduction

ALLEN® 4175F is a general purpose ABS that has high impact strength and a good cost to performance ratio to other materials like stainless steel, and other thermoplastics.

General Information

ALLEN® 4175F 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

- Covers for food processing equipment
- Splash zone guards
- Deli risers

Features

- Custom color matching
- FDA 21 CFR 181.32 compliant
- High gloss finish

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	1.02-1.04 g/cc	
MECHANICAL			
Tensile Strength	ASTM D638	5,800 psi	39.9 MPa
Flexural Modulus	ASTM D790	302,000 psi	2082.2 MPa
Flexural Strength	ASTM D790	9,700 psi	66.8 MPa
Notched Izod Impact, 23 °C (73 °F)	ASTM D256	8.1 ft-lb/in	432 J/m
Notched Izod Impact, -17 °C (0 °F)	ASTM D256	5.6 ft-lb/in	299 J/m
THERMAL			
Heat Deflection Temperature (HDT) @66 psi (.45 MPa), unannealed	ASTM D648	200 °F	90.5 °C
Mold Shrinkage	ASTM D955	0.005-0.007 in/in	
FLAMMABILITY			
Underwriters Laboratories, Inc. [®] Component Recognition	UL Standard 94 ²	HB @ 0.060 in (1.52mm)	
Motor Vehicle Safety Standard	FMVSS 302	PASS	
¹ Values based upon injection molded resin. ² ALLEN® 4175F 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.