

## ALLEN® 8250MD

High Impact, High HDT FR PC/ABS, High Gloss Medical Grade Sheet

### Introduction

ALLEN® 8250MD is a general purpose FR PC/ABS with high impact strength and high heat deflection.

### General Information

ALLEN® 8250MD meets Federal Motor Vehicle Safety Standard No. 302 (FMVSS 302) and is Underwriter's Laboratories, Inc.® recognized Std 94 V-0, 5V.

### Suggested Applications

- Covers and Housings
- Fan Shrouds
- Healthcare / Medical Equipment
- MRI panels
- Instrument Panels

### Features

- Custom color matching
- Good forming properties
- Edge trim easily used for future orders
- High heat deflection temperature
- High gloss finish
- Meets many medical specifications

### 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	1.28	
Water Absorption, 24hr	ASTM D570	0.3 %	
Rockwell Hardness, R-Scale	ASTM D785	98	
<b>MECHANICAL</b>			
Tensile Strength	ASTM D638	9,430 psi	65 MPa
Tensile Modulus	ASTM D638	518,000 psi	3,570 MPa
Flexural Modulus	ASTM D790	508,000 psi	3,500 MPa
Flexural Stress at 5% Strain	ASTM D790	16,000 psi	110 MPa
Notched Izod Impact Resistance	ASTM D256	9.4 ft-lbs/in	500 J/m
Notched Izod Impact Resistance @ -22°F (-30°C)	ASTM D256	1.7 ft-lbs/in	90 J/m
Instrumented Dart Impact, Total Energy	ASTM D3763	33.2 ft-lb	45 J
Ball Pressure Test, 95 °C	IEC 60695-10-2	PASS	
<b>THERMAL</b>			
Heat Deflection Temperature (HDT) @264 psi (1.8 MPa), unannealed	ASTM D648	192 °F	89 °C
Heat Deflection Temperature (HDT) @66 psi (0.45 MPa), unannealed	ASTM D648	210 °F	99 °C
Coefficient of Thermal Expansion (MD)	ASTM E831	28.9 µin/in/°F	52.0 µm/m/°C
<b>ELECTRICAL</b>			
Dielectric Strength, oil	ASTM D149	432 V/mil	17 kV/mm
<b>FLAMMABILITY</b>			
Motor Vehicle Safety Standard	FMVSS 302	PASS	
Underwriter's Laboratories, Inc.® Component Recognition	UL Standard 94	V-0, 5V @ 1.5mm thickness	
<sup>1</sup> Values based upon 0.125" (3.17mm) sheet unless otherwise specified. Not intended for specification purposes.			

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