

ALLEN® 8200BC

High Impact FR PC/ABS, High Gloss Bio Compatible Medical Grade Sheet

Introduction

ALLEN® 8200BC is a bio compatible FR PC/ABS medical grade sheet with high impact strength and high heat deflection.

General Information

ALLEN® 8200BC 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 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 ¹	
PHYSICAL			
Specific Gravity	ASTM D792	1.19	
Water Absorption, 24hr	ASTM D570	0.5 %	
MECHANICAL			
Tensile Strength	ASTM D638	10,000 psi	69 MPa
Tensile Modulus	ASTM D638	384,000 psi	2,650 MPa
Flexural Modulus	ASTM D790	381,000 psi	2,626.9 MPa
Flexural Stress at 5% Strain	ASTM D790	14,600 psi	100.7 MPa
Notched Izod Impact Resistance	ASTM D256	12.0 ft-lbs/in	640.6 J/m
Notched Izod Impact Resistance @ -20°F (-29°C)	ASTM D256	3.31 ft-lbs/in	176.7 J/m
THERMAL			
Heat Deflection Temperature (HDT) @264 psi (1.8 MPa), unannealed	ASTM D648	208 °F	98 °C
Heat Deflection Temperature (HDT) @66 psi (0.45 MPa), unannealed	ASTM D648	223 °F	106 °C
Coefficient of Thermal Expansion (MD)	ASTM E831	37.8 µin/in/°F	68.0 µm/m/°C
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	889 V/mil	35 kV/mm
FLAMMABILITY			
Motor Vehicle Safety Standard	FMVSS 302	PASS	
Underwriter's Laboratories, Inc.® Component Recognition	UL Standard 94	V-0, 5V @ 1.5mm thickness	
¹ Values based upon 0.125" (3.17mm) sheet unless otherwise specified. Tested only according to ISO 10993-5 and ISO 10993-10 for contact with uncompromised skin Not intended for specification purposes.			

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This information supersedes all previously published data.