

ALLEN® 8150SM

High Impact, High HDT PC/ABS, High Gloss Sheet

Introduction

ALLEN® 8150SM is a general purpose PC/ABS with high impact strength and high heat deflection.

General Information

ALLEN® 8150SM meets Federal Motor Vehicle Safety Standard No. 302 (FMVSS 302)

Suggested Applications

- Vehicle Interior Trim
- Covers and Housings
- Vehicle Exteriors (painted)
- 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 automotive 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	1.13	
Water Absorption, 24hr	ASTM D570	0.17 %	
Rockwell Hardness, R-Scale	ASTM D785	111	
MECHANICAL			
Tensile Strength	ASTM D638	6,960 psi	48.0 MPa
Tensile Modulus	ASTM D638	304,000 psi	2096.0 MPa
Flexural Modulus	ASTM D790	323,000 psi	2227.0 MPa
Flexural Stress at 5% Strain	ASTM D790	11,600 psi	80.0 MPa
Compressive Strength, yield	ASTM D695	8,590 psi	59.2 MPa
Shear Strength	ASTM D732	7,830 psi	54.0 MPa
Bearing Strength, 4% deflection	ASTM D953	4,040 psi	27.9 MPa
Bearing Strength, max.	ASTM D953	33,100 psi	228.2 MPa
Notched Izod Impact Resistance	ASTM D256	9.81 ft-lbs/in	523.9 J/m
Gardner Drop Dart Impact, GE	ASTM D5420	443 in-lbf	50.1 J
THERMAL			
Heat Deflection Temperature (HDT) @264 psi (1.8 MPa), unannealed	ASTM D648	251.4 °F	101 °C
Heat Deflection Temperature (HDT) @66 psi (0.45 MPa), unannealed	ASTM D648	264.0 °F	122 °C
Coefficient of Thermal Expansion (MD)	ASTM E831	42.8 µin/in/°F	77 µm/m/°C
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	552 V/mil	21.7 kV/mm
FLAMMABILITY			
Motor Vehicle Safety Standard	FMVSS 302	PASS	
¹ Values based upon 0.125" (3.17mm) sheet unless otherwise specified. Not intended for specification purposes.			

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