

ALLEN® 556/LXS

Co-extruded, High Impact ABS, Matte Gloss Sheet

Introduction

ALLEN® 556/LXS is a general purpose ABS that has high impact strength and a good cost to performance ratio to other materials like painted metal, FRP, aluminum, and other thermoplastics.

General Information

ALLEN® 556/LXS is Underwriters Laboratories, Inc® recognized for UL Std 94 HB (UL94) and Federal Motor Vehicle Safety Standard No. 302 (FMVSS 302)

Suggested Applications

- Marine products
- Recreational Vehicles
- Agricultural cab interiors
- Truck interiors
- Equipment covers
- P.O.P Displays

Features

- Custom color matching
- Ease of processing
- Regrind compatible in future orders
- UV protective films available
- Matte 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

ISO 9001:2008 and 14001:2004 Certified

Customer Service

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Physical Properties

Property	Test Method	Typical Value ¹	
PHYSICAL			
Specific Gravity	ASTM D792	1.05	
Water Absorption, 24hr	ASTM D570	0.31 %	
Rockwell Hardness, R-Scale	ASTM D785	99	
MECHANICAL			
Tensile Strength @ 23 °C (73 °F)	ASTM D638	5,060 psi	34.9 MPa
Tensile Modulus @ 23 °C (73 °F)	ASTM D638	295,000 psi	2,034.0 MPa
Flexural Modulus @ 23 °C (73 °F)	ASTM D790	264,000 psi	1,820.0 MPa
Flexural Stress at 5% Strain @ 23 °C (73 °F)	ASTM D790	7,740 psi	53.4 MPa
Compressive Strength, yield	ASTM D695	7,340 psi	50.6 MPa
Shear Strength	ASTM D732	5,430 psi	37.4 MPa
Bearing Strength, 4% deflection	ASTM D953	2,950 psi	20.3 MPa
Bearing Strength, max.	ASTM D953	24,900 psi	171.7 MPa
Notched Izod Impact Resistance @ 23 °C (73 °F)	ASTM D256	5.2 ft-lbs/in	279 J/m
Gardner Drop Dart Impact, GE @ 23 °C (73 °F)	ASTM D5420	148 in-lbf	16.7 J
THERMAL			
Heat Deflection Temperature (HDT) @264 psi (1.8 MPa), unannealed	ASTM D648	213.7 °F	101 °C
Heat Deflection Temperature (HDT) @66 psi (0.45 MPa), unannealed	ASTM D648	219.1 °F	104 °C
Coefficient of Thermal Expansion (MD)	ASTM E831	46.7 µin/in/°F	84 µm/m/°C
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	414 V/mil	16.3 kV/mm
FLAMABILITY			
Underwriters Laboratories, Inc. [®] Component Recognition	UL Standard 94 HB	0.060 in	
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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