

ALLEN® 552/LXS

Co-extruded, High Impact ABS, Medium Gloss Sheet

Introduction

ALLEN® 552/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® 552/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
- Medium 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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