

## ALLEN® 6550M

Coextruded Acrylic capped, Very High Impact, High HDT PC/ABS, Low Gloss Sheet

### Introduction

ALLEN® 6550M is a coextruded acrylic capped PC/ABS sheet with UV protection/weatherability, high impact strength, and high heat deflection.

### General Information

ALLEN® 6550M meets Federal Motor Vehicle Safety Standard No. 302 (FMVSS 302)

### Suggested Applications

- Vehicle Interior Trim
- Covers and Housings
- Vehicle Exteriors
- Instrument Panels

### Features

- Custom color matching
- Good forming properties
- High heat deflection temperature
- Low gloss finish
- UV protection
- 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 <sup>1</sup>	
<b>PHYSICAL</b>			
Specific Gravity	ASTM D792	1.13	
Water Absorption, 24hr	ASTM D570	0.17 %	
Rockwell Hardness, R-Scale	ASTM D785	111	
<b>MECHANICAL</b>			
Tensile Strength	ASTM D638	6,960 psi	48.0 MPa
Tensile Modulus	ASTM D638	304,000 psi	2,096.0 MPa
Flexural Modulus	ASTM D790	323,000 psi	2,227.0 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
<b>THERMAL</b>			
Heat Deflection Temperature (HDT) @264 psi (1.8 MPa), annealed	ASTM D648	221 °F	105 °C
Heat Deflection Temperature (HDT) @66 psi (0.45 MPa), annealed	ASTM D648	262.0 °F	128 °C
Coefficient of Thermal Expansion (MD)	ASTM E831	42.8 µin/in/°F	77 µm/m/°C
<b>ELECTRICAL</b>			
Dielectric Strength, oil	ASTM D149	552 V/mil	21.7 kV/mm
<b>FLAMMABILITY</b>			
Motor Vehicle Safety Standard	FMVSS 302	PASS	
<sup>1</sup> Values based upon injection molded resin. Not intended for specification purposes.			

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