

## 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 & SAFETY CONSIDERATIONS

SEKISUI KYDEX, LLC 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 appLab™ department at 800.682.8758 for resources and Safety Data Sheets or visit our website: [www.kydex.com](http://www.kydex.com).



#### Customer Collaboration

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PROPERTY	TEST METHOD	TYPICAL VALUE <sup>1</sup>	
<b>PHYSICAL</b>			
Specific Gravity	ASTM D792	1.13	
Density	ISO 1183	1.13 g/cm <sup>3</sup>	0.04 lb/in <sup>3</sup>
Water Absorption, equilibrium, 73°F	ISO 62	0.17%	
Rockwell Hardness, R-scale	ASTM D785	111	
<b>MECHANICAL</b>			
Tensile Strength	ASTM D638	48.0 MPa	6,960 psi
Tensile Modulus	ASTM D638	2096.0 MPa	304,000 psi
Flexural Modulus	ASTM D790	2227.0 MPa	323,000 psi
Flexural Stress at 5% Strain	ASTM D790	80.0 MPa	11,600 psi
Compressive Strength, yield	ASTM D695	59.2 MPa	8,590 psi
Shear Strength	ASTM D732	54.0 MPa	7,830 psi
Bearing Strength, 4% deflection	ASTM D953	27.9 MPa	4,040 psi
Bearing Strength, max.	ASTM D953	228.2 MPa	33,100 psi
Notched Izod Impact Resistance @ 23°C (73°F)	ASTM D256	523.9 J/m	9.81 ft-lbs/in
Notched Izod Impact Resistance @ -29°C (-20°F)	ASTM D256	438.3 J/m	8.21 ft-lbs/in
Gardner Drop Dart Impact, GE @ 23°C (73°F)	ASTM D5420	50.1 J	443 in-lb <sub>f</sub>
Gardner Drop Dart Impact, GE @ -29°C (-20°F)	ASTM D5420	59.0 J	522 in-lb <sub>f</sub>
<b>THERMAL</b>			
Heat Deflection Temperature (HDT) 264 psi (1.8 MPa), Annealed	ASTM D648	105°C	221.0°F
Heat Deflection Temperature (HDT) 66 psi (0.45 MPa), Annealed	ASTM D648	128°C	262.0°F
Coefficient of Thermal Expansion (TD)	ASTM E831	77 µm/m/°C	42.8 µin/in/°F
<b>ELECTRICAL</b>			
Dielectric Strength, oil	ASTM D149	21.7 kV/mm	552 V/mil
<b>FLAMMABILITY<sup>2</sup></b>			
Underwriters Laboratories, Inc ® Component Recognition	UL Standard 94 <sup>2</sup>	HB @ 1.52mm (0.060 in)	
Motor Vehicle Safety Standard	FMVSS 302	PASS	
<sup>1</sup> Values based upon 0.125" (3.17mm) sheet unless otherwise specified. <sup>2</sup> ALLEN® 6550M has been tested under laboratory conditions and has passed UL 94HB criteria. SEKISUI KYDEX, LLC makes no warranty or guarantee that these products will meet UL 94HB in the part's final, finished configuration. Not intended for specification purposes.			



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