

## ALLEN® 8050TX

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

### Introduction

ALLEN® 8050TX is a general purpose PC/ABS with high impact strength and high heat deflection.

### General Information

ALLEN® 8050TX meets Federal Motor Vehicle Safety Standard No. 302 (FMVSS 302)

### Suggested Applications

- Vehicle Interior Trim
- Covers and Housings
- Fan Shrouds
- 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 <sup>1</sup>	
<b>PHYSICAL</b>			
Specific Gravity	ASTM D792	1.14	
Water Absorption, 24hr	ASTM D570	0.17 %	
Rockwell Hardness, R-Scale	ASTM D785	117	
<b>MECHANICAL</b>			
Tensile Strength	ASTM D638	8,520 psi	58.7 MPa
Tensile Modulus	ASTM D638	358,000 psi	2,468 MPa
Flexural Modulus	ASTM D790	374,000 psi	2,579 MPa
Flexural Stress at 5% Strain	ASTM D790	13,700 psi	94.5 MPa
Compressive Strength, yield	ASTM D695	10,800 psi	74.5 MPa
Shear Strength	ASTM D732	8,860 psi	61.1 MPa
Bearing Strength, 4% deflection	ASTM D953	3,820 psi	26.3 MPa
Bearing Strength, max.	ASTM D953	36,100 psi	248.9 MPa
Notched Izod Impact Resistance	ASTM D256	10.4 ft-lbs/in	555.2 J/m
Notched Izod Impact Resistance @ -20°F (-29°C)	ASTM D256	8.2 ft-lbs/in	437.8 J/m
Gardner Drop Dart Impact, GE	ASTM D5420	632 in-lbf	71.4 J
<b>THERMAL</b>			
Heat Deflection Temperature (HDT) @264 psi (1.8 MPa), annealed	ASTM D648	252 °F	122 °C
Heat Deflection Temperature (HDT) @66 psi (0.45 MPa), annealed	ASTM D648	266 °F	130 °C
Coefficient of Thermal Expansion (MD)	ASTM E831	36.5 µin/in/°F	65.6 µm/m/°C
<b>ELECTRICAL</b>			
Dielectric Strength, oil	ASTM D149	481 V/mil	18.9 kV/mm
<b>FLAMMABILITY</b>			
Motor Vehicle Safety Standard	FMVSS 302	PASS	
<sup>1</sup> Values based upon 0.125" (3.17mm) sheet unless otherwise specified. Not intended for specification purposes.			

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