

## KYDEX® 5115

High impact, tinted sheet for backlit panels

### INTRODUCTION

KYDEX® 5115 is a tinted PVC/PMMA that allows light to pass through for backlit applications. Its high impact strength and excellent chemical resistance makes it a perfect alternative to commonly used materials that normally break and craze from standard wear and cleaning agents.

### GENERAL INFORMATION

KYDEX® 5115 is designed for backlit panels and accents. Its self-extinguishing characteristics make it compliant to various flammability standards including Class 1/A building code requirements and UL94 V-0. Standard cleaners and disinfectants will not affect KYDEX® 5115, making it an excellent alternative to materials that tend to crack and craze.

### SUGGESTED APPLICATIONS

- Backlit panels
- Store Fixtures
- Medical Devices
- Kiosks
- Accents

### FEATURES

- Excellent fabrication and formability characteristics
- High impact strength and durability
- Excellent chemical resistance
- Contact your SPI sales representative for availability of colours and thicknesses

### 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 appLab™ department at 800.682.8758 for resources and Safety Data Sheets or visit our website: <http://www.sekisui-spi.com>.



#### Customer Service

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Property	Test Method	Typical Value <sup>1</sup>	
<b>PHYSICAL</b>			
Specific Gravity	ASTM D792	1.35	
Water Absorption, 24 hr	ASTM D570	0.04%	
Rockwell Hardness, R-Scale	ASTM D785	110	
<b>MECHANICAL</b>			
Tensile Strength	ASTM D638	53.0 MPa	7,690 psi
Tensile Modulus	ASTM D638	2,668 MPa	387,000 psi
Poisson's Ratio	ASTM D638	0.414	
Flexural Strength	ASTM D790	75.8 MPa	11,000 psi
Flexural Modulus	ASTM D790	2,710 MPa	393,000 psi
Compressive Strength, yield	ASTM D695	59.8 MPa	8,680 psi
Compressive Modulus	ASTM D695	2,675 MPa	388,000 psi
Shear Strength	ASTM D732	60.3 MPa	8,740 psi
Bearing Strength, 4% deflection	ASTM D953	23.5 MPa	3,410 psi
Bearing Strength, max	ASTM D953	224.7 MPa	32,600 psi
Izod Impact, notched	ASTM D256	720 J/m	13.5 ft-lb <sub>i</sub> /in
Gardner Drop Dart Impact, GE geometry	ASTM D5420	68.6 J	607in-lb <sub>i</sub>
<b>THERMAL</b>			
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa) annealed	ASTM D648	71.6°C	160.9°F
Coefficient of Thermal Expansion	ASTM E831	68.7 mm/m/°C	38.2 min/in/°F
<b>ELECTRICAL</b>			
Dielectric Strength, oil	ASTM D149	17.7 kV/mm	450 V/mil
<b>FLAMMABILITY<sup>2</sup></b>			
Vertical Burn, 60-second	FAR 25.853(a) Part 1 (a)(i)	Pass	
Vertical Burn, 12-second	FAR 25.853(a) Part 1 (a)(ii)	Pass	
Underwriters Laboratories Inc: Component Recognition (E115252)	UL 94	V-0 (all thicknesses) 5VA (1.5mm)	
Steiner Tunnel (Flame Spread/Smoke)	ASTM E84	Class 1/A	
<sup>1</sup> Values based upon 3.18mm (0.125") sheet unless otherwise specified. <sup>2</sup> All thicknesses Not intended for specification purposes.			



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