

KYDEX® T-ION

High impact fire-rated sheet with premium antimicrobial protection

INTRODUCTION

KYDEX® T-ION is a proprietary thermoplastic sheet with built-in antimicrobial protection, KYDEX ION Technology™, that continuously fights the growth of stain and odor causing bacteria on its surface. Strong disinfectants and cleaners will have no effect due to its superior chemical resistance.

GENERAL INFORMATION

Since KYDEX® T-ION is less hygroscopic than other thermoplastics, it does not require pre-drying, offers superior durability, more uniform forming with less wall thinning and offers significantly greater resistance to a broad range of corrosive chemicals and cleaning solutions. It is available in a wide range of aesthetic choices and is Underwriter's Laboratories, Inc® recognized Std 94 V-0, 5V. Its KYDEX ION Technology™ is integral to the sheet.

SUGGESTED APPLICATIONS

- Aircraft Interiors
- Mass Transit Vehicle Interior Components
- Equipment Housings
- Kiosk Housings
- Medical Products

FEATURES

- Antimicrobial protection inhibits the growth of stain and odor causing bacteria on the sheet surface
- Antimicrobial protection is integrated into the sheet
- Antimicrobial protection keeps the surface cleaner between cleanings
- Available in thicknesses from 0.71mm (0.028") and up
- Easy to form with excellent part definition and deep-draw characteristics
- Recognized by Underwriter's Laboratories, Inc® for Std 94 V-0, 5V in all thicknesses (testing pending)
- Form times similar to FR-ABS making it an easy transition from competitive products

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.

Contact SEKISUI KYDEX appLab™ team for more details about KYDEX ION Technology™, resources, and Safety Data Sheets at 800.682.8758 or visit our website: www.kydex.com.



Customer Collaboration

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*KYDEX® Thermoplastics incorporate an advanced EPA-registered antimicrobial for the protection and preservation of our polymeric and plastic materials. KYDEX® Thermoplastics are treated only to protect the polymeric and plastic materials and do not confer protection from bacteria to users of our products. Always clean the product thoroughly after use. To learn more about KYDEX ION Technology™ or to have a technical conversation, contact our appLab™ team at applab@kydex.com or 800.682.8758.

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PROPERTY	TEST METHOD	TYPICAL VALUE ¹	
PHYSICAL			
Specific Gravity	ASTM D792	1.33	
Moisture Absorption, 24 hrs.	ASTM D570	0.09%	
Rockwell Hardness, R-scale	ASTM D785	107	
MECHANICAL			
Tensile Strength	ASTM D638	49.1 MPa	7,120 psi
Tensile Modulus	ASTM D638	2,558 MPa	371,000 psi
Poisson's Ratio	ASTM D638	0.382	
Flexural Strength	ASTM D790	72.4 MPa	10,500 psi
Flexural Modulus	ASTM D790	2,565 MPa	372,000 psi
Compressive Strength, yield	ASTM D695	54.1 MPa	7,850 psi
Compressive Modulus	ASTM D695	2,737 MPa	397,000 psi
Shear Strength	ASTM D732	44.7 MPa	6,480 psi
Bearing Strength, 4% deformation	ASTM D953	25.0 MPa	3,630 psi
Bearing Strength, maximum	ASTM D953	210 MPa	30,400 psi
Gardner Drop Dart Impact, GE	ASTM D5420	51.0 J	451 in-lb _f
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	17.1 kV/mm	435 V/mil
THERMAL			
Heat Deflection Temperature (HDT) @ 264 psi (1.8 MPa) annealed	ASTM D648	73.6°C	165°F
Coefficient of Thermal Expansion	ASTM E831	72.9 µm/m/°C	40.5 µin/in/°F
FLAMMABILITY			
Underwriters Laboratories, Inc.® Component Recognition	UL Standard 94 ²	V-0, 5V ³	
Vertical Burn, 60-second	FAR 25.853(a)(i)	Pass ⁴	
Vertical Burn, 12-second	FAR 25.853(a)(ii)	Pass ⁴	
Federal Motor Vehicle, Horizontal Burn	FMVSS 302	Pass ⁴	
¹ Values based upon 3.18mm (0.125") sheet unless otherwise specified. ² Underwriters Laboratories, Inc.®, File Number E115252 (Testing Pending) ³ All thicknesses 0.71mm (0.028") and above ⁴ All thicknesses and all colours Not intended for specification purposes.			



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