

KYDEX® T-LW

Light weight fire-rated sheet

Introduction

KYDEX® T-LW is a fire-rated thermoplastic sheet that has the flammability characteristics of a PVC/PMMA alloy and features significant weight savings compared to standard KYDEX® T and is comparable to polycarbonate.

General Information

KYDEX® T-LW is a light-weight alternative to heavier fire-rated thermoplastics. It meets a wide range of fire safety standards including FAR 25.853(a) vertical burn, Federal Motor Vehicle Safety Standard 302, and UL 94 V-0. It offers a significant weight reduction compared to other PVC/PMMA alloys.

Suggested Applications

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

Features

- Offers a 10% weight savings compared to KYDEX® T and is comparable to polycarbonate
- Specific gravity of 1.21
- Meets flammability requirements listed in FAR 25.853(a)
- Compliant to Federal Motor Vehicle Safety Standard, FMVSS 302
- Recognized by Underwriter's Laboratories, Inc. as UL 94 V-0 rated in all thicknesses
- Easy machining and fabrication using conventional methods and equipment
- Available in P-1, P-3, and P-C textures and thicknesses from 1.19mm (0.047") to 6.35mm (0.250")

SEKISUI SPI

ISO 9001 and 14001 Certified

Customer Service

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Physical Properties

Property	Test Method	Typical Value ¹	
PHYSICAL			
Specific Gravity	ASTM D-792	1.21	
Water Absorption, 24hr	ASTM D-570	0.15%	
Rockwell Hardness, R-Scale	ASTM D-785	39	
MECHANICAL			
Tensile Strength	ASTM D-638	27.2 MPa	3,950 psi
Tensile Modulus	ASTM D-638	1,860 MPa	270,000 psi
Flexural Strength	ASTM D-790	44.5 MPa	6,450 psi
Flexural Modulus	ASTM D-790	1,800 MPa	261,000 psi
Compressive Strength, yield	ASTM D-695	35.9 MPa	5,200 psi
Compressive Modulus	ASTM D-695	1,635 MPa	237,000 psi
Shear Strength	ASTM D-732	29.0 MPa	4,200 psi
Bearing Strength, 4% deflection	ASTM D-953	21.0 MPa	3,050 psi
Bearing Strength, max.	ASTM D-953	138.5 MPa	20,100 psi
Gardner Drop Dart Impact, GE	ASTM D-5420	15.3 J	135 in-lb _f
THERMAL			
Heat Deflection Temperature @264 psi (1.8 MPa), annealed	ASTM D648	67.2°C	153°F
Coefficient of Thermal Expansion	ASTM E831	75.3 μm/m/°C	41.8 μin/in/°F
ELECTRICAL			
Dielectric Strength, oil	ASTM D149	17.1 kV/mm	435 V/mil
FLAMABILITY²			
Vertical Burn, 60-second Vertical Burn, 12-second	FAR 25.853(a)(i) FAR 25.853(a)(ii)	PASS PASS	
Federal Motor Vehicle Safety	FMVSS 302	Pass	
Underwriter's Laboratories, Inc Component Recognition	UL 94	V-0 (pending)	
¹ Values based upon 0.125" (3.17mm) sheet unless otherwise specified ² All Thicknesses Not intended for specification purposes.			

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