

Tough, Maintenance-Free HDPE Boat Board Sheets



**Outperforms timber
and wood-composite
products**

- Withstands hot, cold, wet and dry conditions
- Will not splinter, rot or delaminate
- Durable, resists high impacts
- Maintenance-free, never needs painting
- Will not sag easily

**Solid polymer sheet for cabinetry
and furniture that withstands
any environment beautifully**

HDPE Boat Board Sheet

Outperforms plywood, laminated wood-core products and wood composites for exterior and interior cabinetry and furniture

Performs beautifully under extreme conditions

The durable, solid polymer composition and integral colour of furniture grade sheet delivers performance benefits that plywood and laminated wood-core products cannot:

- Withstands hot, cold, wet and dry conditions
- Will not splinter, rot or delaminate
- Resists stains, chemicals and harsh cleaning agents
- Resists high impacts even at temperature extremes
- Will not sag easily

Eliminates secondary edge trim

When routed and sawn, the edges of SIMONA's solid colour HDPE and polypropylene sheet are uniform in appearance with the top and bottom surfaces. This eliminates the need for edge moldings, painting and other edge treatments that add cost, can create unsanitary seams and delaminate, chip, dent or separate over time.

Maintenance free

- Integral colour never needs painting
- Renders scratches and gouges inconspicuous
- Resists stains—easy to clean
- Resists harsh chemicals in laboratory applications

Easy to fabricate

- Exceptional flatness affords high productivity and yields
- Dimensionally stable even in large, flat, heavy-gauge applications
- Easy to machine using conventional woodworking equipment
- Easy to join using mechanical fasteners or specialty adhesives

Standard Stock

Sheet Size:

2440mm x 1370mm

Thicknesses:

6.35mm, 9.5mm, 12.7mm, 15.8mm, 15.8mm, 19.05mm, 25.4mm

Colours:

White

Other colours (on application only)



HDPE Boat Board

Long-term performance and lasting appearance in outdoor and indoor cabinetry, furniture and accessories

Rigid, durable and resistant to extreme outdoor weather conditions

HDPE Boat Board's ability to withstand sun, salt water and rigorous use, together with its wide colour selection, makes it ideal for long lasting outdoor furniture and cabinetry, poolside and beach structures, as well as boat building components.

Typical outdoor applications

- Outdoor kitchen cabinetry
- Restaurant and resort furniture
- Serving carts, recycle bins
- Lifeguard, beach and marina structures
- Pool equipment and storage
- Arena and park benches
- Boat building components

Tough and easy to clean, in colors that enhance any indoor environment

SIMONA's HDPE Boat Board is tough enough for industrial use, yet it delivers exceptional aesthetics in a range of colors for indoor furniture and cabinetry that complements home, commercial, scientific, medical and laboratory environments.

Typical indoor applications

- Medical and dental cabinetry
- Lockers, benches, partitions
- Hospitality cabinetry and furniture
- Indoor pool cabinetry, storage
- Recreational and bar cabinetry
- Workshop cabinetry, work surfaces, storage

TYPICAL PROPERTIES: HDPE and BOAT BOARD

PROPERTY, units of measure*	TEST METHOD	HDPE Boat Board
Specific Gravity	ASTM D792	0.96
Water Absorption, %	ASTM D570	<0.01

MECHANICAL

Tensile Strength @ yield psi (MPa)	ASTM D638	4,400 (30.4)
Elongation @ break, %	ASTM D638	>300
Flexural Modulus psi (MPa)	ASTM D790	190,000 (1,311)
Notched Izod Impact ft-lb/in., (J/m)	ASTM D256	2.75 (146.85)
Hardness, Shore D	ASTM D2240	65
Abrasion Resistance mg/1000	Taber CS 17	—
Coefficient of Friction (static/dynamic)	ASTM C1894	0.2/0.2

THERMAL

Continuous Service Temperature °F (°C)	Maximum	170°F (76.7°C)
Melting Point °F (°C)	ASTM D3418	267°F (130.7°C)
Coeff. of Expansion x10 ⁻⁵ in./in., °F (mm/mm, °C)	ASTM D696	10 (18)
Heat Deflection Temp. @ 66 psi (0.45 MPa)	ASTM D648	167°F (75°C)
Heat Deflection Temp. @ 264 psi (1.8 MPa)	ASTM D648	110°F (43.4°C)

FLAMMABILITY

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FDA

FDA reg. 21 Chapter 1 part 177.2510	—	Yes
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*All tests at 73°F (22.8°C) in dry conditions unless otherwise noted.

Wide range of colour options for diverse applications

Allplastics offers a wide spectrum of standard and custom colors from subtle tones for cabinetry and boat building, to bold colors for scholastic and sports venues. All colors are integral and uniform throughout each sheet.

Cabinet and furniture grade colors include:

- White
- Other colours available on application only include:
 - Dolphin gray, glacier gray
 - Seafoam, sandshade, tan
 - Brown, black
 - Additional standard and custom colors available in every material family

ESSENTIAL DIFFERENCES 3 = BEST 2 = BETTER 1 = GOOD	RIGIDITY	IMPACT STRENGTH		SURFACE HARDNESS	CHEMICAL RESISTANCE	EASE OF FABRICATION	UV STABILIZED	FDA COMPLIANCE
		73°F (22.8°C)	0°F (-17.8°C)					
HDPE Boat Board	2	2	2	1	2	3	Yes	Yes