



**SIMONA**  
**AMERICA**  
**INDUSTRIES**

## **SIMONA<sup>®</sup> HDPE BOATBOARD<sup>®</sup>**

UV and weather-resistant polymers for constructing durable and attractive outdoor furniture and cabinetry

GLOBAL THERMOPLASTIC SOLUTIONS

## Create beautiful, long-lasting outdoor furniture with SIMONA® HDPE BOATBOARD® cabinet-grade sheet.

This tough, UV resistant material withstands long term exposure to intense sun, salt water, and cleaning products. Made out of HDPE, a durable, impact resistant polymer, SIMONA® BOATBOARD® provides excellent protection from the effects of rigorous use and environmental exposure. In addition, the material is easy-to-clean and FDA compliant.

A combination of long-term performance, high-end appearance and consistency in fabrication make SIMONA® BOATBOARD® ideal for a diverse range of residential and commercial outdoor living applications.

### Areas of Use

- Patios and Outdoor Living Areas
- Restaurant Bars
- Pool Storage
- Amusement Park Food Kiosks
- Break Rooms
- Dormitories
- Retail and Convenience Stores
- School Cafeterias

### Applications

- Cabinet Boxes
- Cabinet Doors
- Benches
- Adirondak Chairs
- Picnic Tables
- Bar Frames
- Pool Equipment Storage Boxes
- Cutting Boards
- Carts
- Fish Cleaning Stations
- Waste Containers



## Why choose SIMONA® BOATBOARD® over other polymer materials?

This material offers excellent rigidity and flatness in fabrication, which means it's really easy to machine using standard wood-working equipment, with no need for special vacuums or clamps.

SIMONA® BOATBOARD® has a scratch-resistant surface-finish and gloss level that is preferred by most fabricators and cabinet makers.

It's offered in the industry's widest range of standard colors and textures and maintains color consistency from order to order.

Available in a wide range of colors and textures  
- with no need to sand, paint or edgeband.

### Long-term Color Performance

Unlike plywood, SIMONA® BOATBOARD® won't delaminate, rot or splinter, and its surface-finish hides scratches and marring that ruins painted surfaces. Its stain resistance, easy-to-clean matte finish and wide spectrum of integral colors further assure long lasting appearance and functionality.



### Standard Sheet Specifications

#### Sheet sizes

54 x 96 in. (1,372 x 2,440 mm)  
48 x 96 in. (1,219 x 2,440 mm)

#### Gauges

1/4; 3/8; 1/2; 3/4; 1.0 in.  
(6.4; 9.5; 12.7; 19.0; 25.4 mm)

**Masking:** 1 side

**Tolerance:** ± 5% for gauges 1/4 in. up to 1 1/2 in.  
Length and width plus only at room temperature

Custom colors and sizes are available with minimum order quantities.

*\*Color accuracy is not exact on a digital print or computer screen. Request a sample before placing an order.*

### Standard and Custom Textures

SIMONA® BOATBOARD® comes standard with a semi-gloss finish and matte texture on both sides. Premium textures are available and can provide added anti-slip resistance for surface area applications.



# SIMONA® HDPE BOATBOARD®

## Material properties



### PROPERTIES SIMONA® HDPE BOATBOARD® Cabinet-grade Sheet

PROPERTY, Units of Measure <sup>1</sup>	Test Method	TYPICAL VALUES	
		SIMONA®HDPE BOATBOARD®	
Specific Gravity	ASTM D792	0.97	
Water Absorption, %	ASTM D570	<0.1	
<b>MECHANICAL</b>			
Tensile Strength @ Yield	ASTM D638	4,400 psi	30.4 MPa
Elongation @ Break, %	ASTM D638	>300%	
Flexural Modulus	ASTM D790	190,000 psi	1,310 MPa
Notched Izod Impact	ASTM D256	2.75 ft-lb/in.	146.8 J/m
Hardness, Shore D	ASTM D2240	65	
Abrasion Resistance mg/1000	Taber CS 17	—	
Coefficient of Expansion x 10-5	ASTM D696	10.0	
<b>THERMAL</b>			
Melting Point	ASTM D3418	267 °F	130.7 °C
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
<b>FDA</b>			
FDA reg. 21 Chapter 1 part 177.2510	—	Yes	

<sup>1</sup>All tests at 73 °F (22.8 °C) in dry conditions unless otherwise noted.

### + Best Practices for Machining SIMONA® HDPE BOATBOARD®

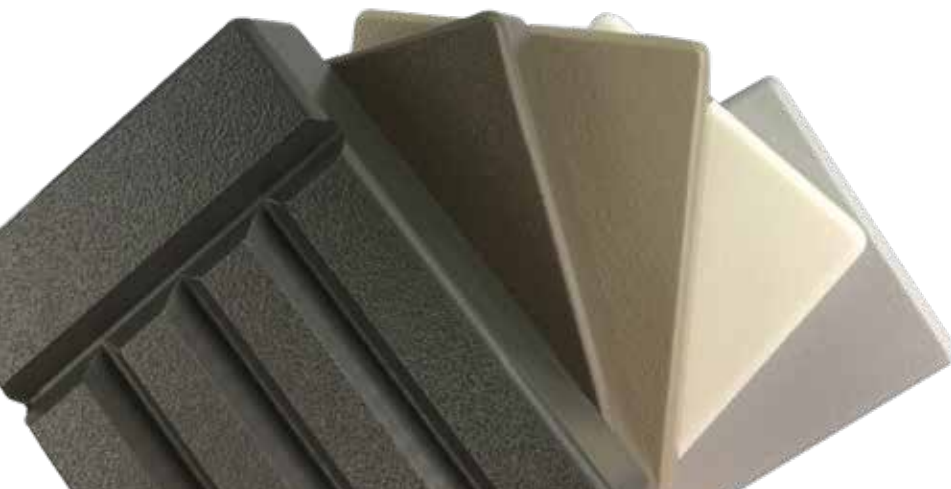
- Use standard wood- and metal-working equipment
- Use sharp tools to avoid over-heating
- Use carbide-tipped tools
- Factor in thermal expansion and contraction
- Use screws designed specifically for plastics
- Use threaded inserts
- Conduct a pre-production trial
- Use stainless steel hardware and fasteners

### + Take Advantage of Our Technical Services

We offer diverse application and specification expertise, in addition to hands-on fabrication and welding support. Schedule a dedicated training seminar at your facility to learn how to get the best results when working with SIMONA materials.

**Download the full fabrication guide and thermal expansion and contraction worksheet at [www.simona-america.com](http://www.simona-america.com).**

To request a sample, or place an order with a SIMONA AMERICA Industries distributor, email [sales-sai@simona-group.com](mailto:sales-sai@simona-group.com) or call **+1 866 501 2992**.



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