

SIMONA® HDPE Boat Board

Proven in extreme marine conditions. Maintenance-free integral colors. Long-term durability for boat building components, outdoor and indoor cabinetry.



SIMONA® HDPE Boat Board sets the high bar for its combination of long-term performance, durability, appearance and fabrication ease and consistency.

In boat building components, this tough, UV resistant sheet withstands long term exposure to intense sun, salt water and rigorous use. This also makes it ideal for outdoor patio, poolside and marina cabinetry, furniture and accessories. Its impact resistance, FDA compliance, easy-to-clean surface and attractive appearance enhance indoor medical, clinical and laboratory cabinetry as well.

Unlike plywood, SIMONA HDPE Boat Board won't delaminate, rot or splinter, and its integral colors hide scratches and marring that ruin painted surfaces. Its stain resistance, easy-to-clean matte finish and wide spectrum of integral colors further assure long lasting appearance and functionality.

In fabrication, it maintains exceptional flatness and dimensional stability for high production yields and finished part quality. Standard woodworking equipment works well with the material, and fabricators appreciate its advantages especially in thicker gauges for large flat, formed or machined panels.

Advantages

- Integral color hides marring, scratches
- Solid polymer composition won't delaminate, rot or splinter
- Uniform color and surface consistency
- Maintenance-free, easy to clean
- Resists impacts, extreme weather
- Easy to fabricate using standard woodworking tools

Applications

- Instrument panels
- Instrument and control base plates
- Deck and seating components
- Doors, hatch and well covers
- Tables, trim, cabinets
- Storage and tackle bins
- Cup and rod holders
- Steps, grab rails

Configurations

- Sheet sizes
 - 54 x 96 in. (1,372 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)
- Colors
 - Polar white; Bright white
 - Dolphin gray; Glacier gray
 - Seafoam; Sandshade
 - Brown; Black
- Texture: Matte 2 sides
- Masking: 1 side
- Custom colors, sizes: On request



SIMONA® HDPE Boat Board offers exceptional flatness, stability and consistency in machining and fabrication.

PROPERTIES

PROPERTY, Units of Measure ¹	Test Method	TYPICAL VALUES	
		SIMONA® HDPE Boat Board	
Specific Gravity	ASTM D792	0.96	
Water Absorption, %	ASTM D570	<0.1	

MECHANICAL

Tensile Strength @ Yield	ASTM D638	4,400 psi	30.4 MPa
Elongation @ Break, %	ASTM D638	>300%	
Flexural Modulus	ASTM D790	190,000 psi	1,311 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 Friction (static/dynamic)	ASTM C1894	0.2 / 0.2	
Coefficient of Expansion x10 ⁵	ASTM D696	10.0	

THERMAL

Continuous Service Temperature	Maximum	170 °F	76.7 °C
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

FDA

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

SIMONA® PE, PP AND PVC FOR MACHINING AND FABRICATION

SIMONA® Polypropylene, polyethylene sheet and rod

- SIMONA® Polypropylene homopolymer
- SIMONA® Polypropylene copolymer
 - Natural, white, black, eurogrey
- SIMONA® HDPE and HDPE Boat Board
 - Natural white, black, custom colors
- SIMONA® HDPE dual color
 - Outer “skin” color, contrasting color core

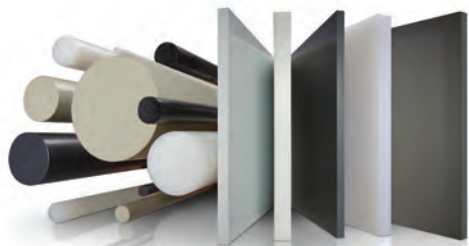
SIMONA® PVC sheet and rod

- SIMONA® PVC Type I & Type II
 - White, black, gray, colors
 - Clear

SIMONA® CPVC sheet

- White, gray
- Clear

UL 94 V-0 and FM 4910 flammability test compliant
PP, PVC and CPVC grades available.



SIMONA offers the widest product range of PVC sheet and rod – FM 4910 rated sheet – chemical resistant materials from PVC, PP and PE to fluoropolymers – orthotics and prosthetics sheet – Boltaron® aircraft sheet – plus proven products for boat building, outdoor furniture and many other industries.

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