

SIMONA® HDPE Lightweight Display Board

Offers more than 20% weight savings compared to standard PE sheet. Provides lasting durability and uniform appearance for retail displays and sign boards.



Advantages

- More than 20% lighter than standard HDPE sheet
- UV and water resistant
- Integral color hides marring, scratches
- Uniform color and surface consistency
- Maintenance-free, easy to clean
- Easy to fabricate using standard woodworking tools

Applications

- Retail display boxes
- POP displays
- Indoor and outdoor cabinets
- Waste containers
- Aisle impact gaurds
- Storage bins
- Cutting boards
- Marine components

Configurations

- Sheet sizes
 - 48 x 96 in. (1,219 x 2,440 mm)
- Gauges
 - 1/2, 3/4 in. (12.7, 19.05 mm)
- Colors
 - Black
 - White
- Texture: Matte 2 sides
- Masking: 1 side
- Custom colors, sizes: On request

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

In retail display applications, this lightweight, UV and water resistant sheet withstands long term exposure to intense sun, impact 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 Lightweight Display Board won't delaminate, rot or splinter, and its integral color hide scratches and marring that ruin painted surfaces. Its stain resistant, easy-to-clean matte finish further assures 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 for flat, formed or machined panels.



SIMONA® PE Lightweight Display Board offers exceptional flatness, stability and consistency in machining and fabrication.

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 Boat Board® Lightweight
- SIMONA® HDPE Polytone®
 - 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

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

PROPERTIES SIMONA® HDPE Lightweight Display Board

PROPERTY, Units of Measure ¹	Test Method	TYPICAL VALUES	
		SIMONA® HDPE Lightweight Display Board	
Specific Gravity	ASTM D792	< 0.77 g/cc	
Water Absorption, %	ASTM D570	< 0.01	
MECHANICAL			
Tensile Strength @ Yield	ASTM D638	2,400 psi	16.55 MPa
Elongation @ Break, %	ASTM D638	10%	
Flexural Modulus	ASTM D790	160,000 psi	1,103 MPa
Notched Izod Impact	ASTM D256	2.4 ft-lb/in.	
Hardness, Shore D	ASTM D2240	68	
Coefficient of Expansion x10 ⁻⁵	ASTM D696	10	
THERMAL			
Melting Point	ASTM D3418	267° F	130.7° C
FDA			
FDA reg. 21 Chapter 1 part 177.2510	—	Yes	

¹All tests at 73°F (22.8°C) in dry conditions unless otherwise noted. Sample size measured was ½" nominal thickness. Flexural Modulus measured using 1% secant, span at 8.0 in. Cross head speed 2.0 in./min. Sample size was modified in order to fully elongate within the equipment upper limit.

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SIMONA AMERICA Industries

101 Power Blvd.
Archbald, PA 18403
Phone + 1 866 501 2992
Fax + 1 800 522 4857
sales-sai@simona-group.com
www.simona-america.com