

SIMONA® HDPE Foam Cutting Board

Offers more than 20% weight savings compared to standard HDPE sheet. Provides lasting durability, temperature and stain resistance for use in food preparation surfaces and storage areas.



SIMONA® HDPE Foam Cutting Board sets the high bar for its combination of light weight, long-term performance, durability, and fabrication ease and consistency.

In cutting board and food preparation surface applications, this lightweight, stain-resistant sheet withstands long term exposure to moisture, cleaning agents, and rigorous use. It's resistance to cold and hot temperatures makes it ideal for commercial cutting boards and food storage cabinetry.

Unlike wooden cutting boards, SIMONA HDPE Foam Cutting Board sheet won't delaminate, rot or splinter, and its integral color hide scratches marring from long term use. Its stain resistant, easy-to-clean matte finish 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 for flat, formed or machined panels.

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

- Cutting boards
- Food preparation surfaces
- Food storage cabinetry
- Food waste containers

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 Foam Cutting Board offers exceptional flatness, stability and consistency in machining and fabrication.

PROPERTIES SIMONA® HDPE Foam Cutting Board

| PROPERTY, Units of Measure ¹ | Test Method | TYPICAL VALUES | |
|--|----------------|---------------------------------|-----------|
| | | SIMONA® HDPE Foam Cutting 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 | |

All 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.

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.

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