

SIMONA® PVDF 1000 Sheet and Rod

Exceptional resistance to acids and ultra-pure water. FM 4910 listed for semiconductor cleanroom equipment. Wider sheet, larger rod diameters afford fabrication versatility.

Inherently UV stable, tough and abrasion resistant, SIMONA® PVDF 1000 is FM 4910 listed for semiconductor cleanroom applications. It is used extensively in applications exposed to acids and ultra-pure water. The high gloss surface of the sheet material also resists contaminant adhesion in chemical processes.

For fabrication versatility, sheet is available in widths up to 60 inches. This allows the production of large tanks with fewer welds, and can afford improved yields. Rod diameters from 0.039 – 19.7 inches (10 – 500 mm) provide the performance benefits of PVDF even in exceptionally large machined parts.

PROPERTIES: SIMONA® PVDF 1000

PROPERTY, unit of measure ¹	Test Method	TYPICAL VALUES
		SIMONA® PVDF 1000
Density	ASTM D792	1.78 g/cc
Water Absorption, %	ASTM D570	<0.03
MECHANICAL		
Tensile Strength @ yield	ASTM D638	7,900 psi (54.5 MPa)
Tensile Modulus	ASTM D638	282,000 psi (1,946 MPa)
THERMAL		
Service Temperature Range	—	-22-284 °F (-30-140 °C)
Melting Point	ASTM D3418	338-341 °F (170-172 °C)
Coeff. of Expansion x10 ⁻⁵	ASTM D696	7.2 in./in., °F (13 mm/mm, °C)
FLAMMABILITY		
	UL 94	—
	FM 4910	Yes
FOOD CONTACT		
FDA reg 21, Chapter 1, part 177.2510	—	Yes

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

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.

DISCLAIMER AND LIMITATION OF WARRANTY:
All information contained herein is believed by SIMONA AMERICA Industries to be reliable. Typical properties are based on laboratory tests conducted on material samples in accordance with standard test methodology. SIMONA AMERICA Industries makes no express or implied warranty that its products will perform in accordance with the data in all conditions and circumstances. To determine suitability for use, users must test applications under actual operating conditions. As a result, ALL EXPRESS OR IMPLIED WARRANTIES IN CONNECTION WITH SIMONA AMERICA Industries and SIMONA Boltaron Inc. PRODUCTS INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED.

Advantages

- FM 4910 listed
- Service temperatures -22 to 284 °F (-30 to 140 °C)
- Exceptional UPW and acid resistance
- High gloss sheet surface
- Welds to SIMONA® PVC with JSR weld rod

Applications

- Chemical process tanks, components
- Wetted parts
- Fume hoods, ducting
- DI water and acid etch systems
- Scientific and laboratory equipment

Configurations

- Sheet sizes
 - 39 x 79 in. (1.0 x 2.0 M)
 - 48 x 96 in. (1.2 x 2.4 M)
 - 60 x 120 in. (1.5 x 3.0 M)
- Sheet gauges:
 - Extruded: 0.125 to 0.787 in. (3.2 to 20 mm)
 - Pressed: ≤ 3.1 in. (80 mm)
 - Gauges vary by sheet size
- Rod Diameters
 - 0.039 to 19.7 in. (10 to 500 mm)
- Custom sizes
 - Available on request
- Color
 - Natural (off-white)
- Weld materials
 - Round rod 0.118, 0.156 in. (3.0, 4.0 mm)
 - Cap strip 0.375, 0.625 in. (9.52, 15.9 mm)

SIMONA AMERICA Industries

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