

## The Industry's Most Complete Line of Chemical Resistant Sheet and Rod

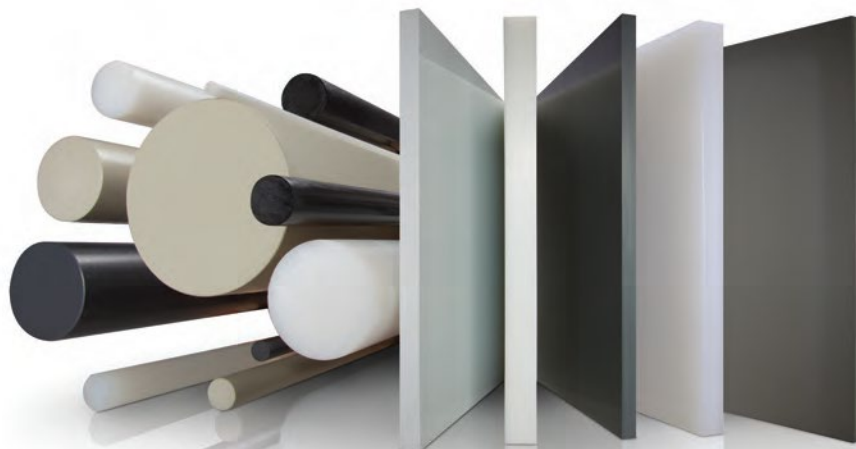


### **SIMONA's versatile range of PFA, E-CTFE, PVDF, CPVC, PP, HDPE and PVC grades**

- Resists acids, bases, solvents and oxidizers
- Performs at service temperatures from 140 to 425°F / 60 to 218°C
- Meets Semicon FM 4910 and UL 94 V-0 flame test criteria
- Includes fabric backed sheet for dual laminates

### **Ideal for fabricating and machining of:**

- Tanks, vessels and baths including dual laminates
- Chemical mixing, dosing and pumping equipment
- Semiconductor wet process equipment
- Industrial cleaning and finishing stations
- Clear protective shields and process view windows
- Fume hoods, vents and ducting
- Scientific furniture, equipment and work surfaces



# Select from the Industry's Widest Range of Corrosion-Resistant Sheet and Rod

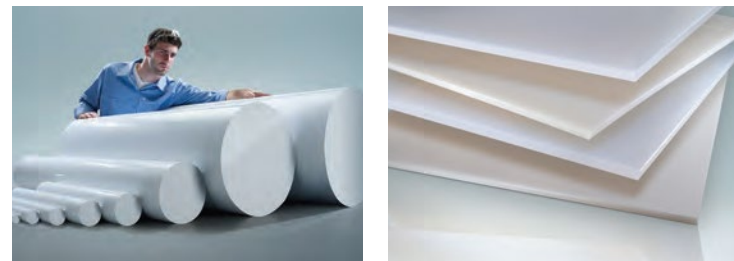
covering all chemical groups and service temperatures to 425°F (218°C)\*

← EXCELLENT TO POOR →

SERVICE TEMPERATURE						DESCRIPTION	MIN/MAX SHEET THICKNESS (IN.)	MIN/MAX ROD DIAMETER (IN.)	WELDING ROD	SEMICON FM 4910	UL 94 V-0	FABRIC BACKED LAMINATES
		STRONG ACIDS	STRONG BASES	SOLVENTS	STRONG OXIDIZERS							
425°F / 218°C	<b>SIMONA® PFA-M</b>	█	█	█	█	High flexural strength and crack resistance. Excellent gloss repels surface contaminants.	Extruded 0.125 - 0.500 Molded 1.0	—	█	█	█	█
	<b>SIMONA® E-CTFE 901</b>	█	█	█	█	Exceptionally smooth surface. Ideal for high purity applications.	0.125 - 1.0	—	█	█	█	█
	<b>SIMONA® E-CTFE 902</b>	█	█	█	█	Heavy gauge sheet grade >1 in. (25.4 mm). Performance and appearance similar to 901 grade.	1.0 - 2.0	—	█	█ <sup>1</sup>	█	█
300°F / 149°C	<b>SIMONA® PVDF 740</b> Homopolymer	█	█	█	█	Homopolymer grade. Higher rigidity and temperature resistance than 2850 grade.	0.125 - 2.0	0.39 - 19.7	█	█	█	█
	<b>SIMONA® PVDF-C 2850</b> Copolymer	█	█	█	█	Copolymer grade. Tougher and more flexible than PVDF 740. Ideal for thermoforming.	0.250 - 2.0	—	█	—	█	█
	<b>SIMONA® CPVC</b> White, gray	█	█	█	█	Higher temperature limit than PVC Type I or Type II. Excellent strength and rigidity. Industrial (gray) and semicon (white) grades.	0.032 - 3.00	—	—	█	█	—
	<b>SIMONA® CPVC</b> Clear	█	█	█	█	Exceptional clarity, uniformity. Ideal for semicon and chemical process view windows.	0.125 - 0.500	—	—	█	█	—
250°F / 121°C	<b>SIMONA® PP</b> Homopolymer Polypropylene	█	█	█	█	Excellent strength-to-weight ratio. Resists staining, maintains excellent surface. Higher structural strength, stiffness than PP copolymer.	0.063 - 1.5	0.250 - 31.5	█	—	—	—
	<b>SIMONA® PP</b> Copolymer Polypropylene	█	█	█	█	Tougher, but less rigid than homopolymer. Superior low temperature impact resistance vs. HDPE, PP homopolymer.	0.125 - 1.5	—	█	—	—	█
195°F / 91°C	<b>SIMONA® FR-PP</b> Flame Retardant Polypropylene	█	█	█	█	Ideal for electrical cabinetry exposed to chemical contact.	0.125 - 1.0	—	█	— <sup>2</sup>	█	—
180°F / 82°C 170°F / 77°C	<b>SIMONA® HDPE</b>	█	█	█	█	Smooth surface will not corrode or tuberculate. Resists cracking from pressure variations.	0.125 - 1.5	0.375 - 31.5	█	—	—	█
	<b>SIMONA® PE 100</b> Pipe Grade	█	█	█	█	UV stabilized black for exterior applications. Exceptional impact resistance. Resists cracking below freezing temperatures.	0.500 - 2.0	—	█	—	—	█
140°F / 60°C	<b>SIMONA® PVC</b> Type I	█	█	█	█	Exceptional structural strength, rigidity. Versatile material for vessels, electrical cabinetry, fume hoods, ducting.	0.032 - 4.0	0.250 - 12.0	█	— <sup>2</sup>	█	—
	<b>SIMONA® PVC</b> Type II	█	█	█	█	Higher impact resistance but less rigid than Type I. Tough, durable at below freezing temperatures.	0.062 - 2.0	—	—	—	█	—
	<b>SIMONA® PVC GLAS</b> Type I Clear	█	█	█	█	Higher rigidity than PVC Type II clear. Ideal for large surface area view windows, shields requiring more stiffness.	0.125 - 0.50	—	—	—	█	—
	<b>SIMONA® PVC 4300</b> Type II Clear	█	█	█	█	Higher impact resistance than PVC Type I clear. Ideal for process view windows, clear shields.	0.062 - 2.0	—	—	—	█	—

\*NOTE: General guidelines only. Users are advised to test for suitability relative to specific application conditions.

<sup>1</sup> Approved for limited use in thick walled and deep drawn formed parts. All tests at 73°F (22.8°C) in dry conditions unless otherwise noted.  
<sup>2</sup> FM 4910 listed PP and PVC Type I grades available



Depending on material, sheet products are offered in gauges to 4 in. (10 cm) and solid rod in diameters to 31 in. (80 cm) with popular sizes in stock for rapid shipment.

### Choose the best balance of cost and performance for your application:

- For exceptional chemical resistance at high service temperatures specify: SIMONA Fluoropolymers
  - For economical all-around performance specify: SIMONA HDPE and PP
  - For structural strength and UL 94 V-0 fire ratings specify: SIMONA PVC Type I, PVC Type II and CPVC
- All sheet and rod products are backed by SIMONA's technical application and fabrication support—unequaled in the industry.
- For sheet and rod samples, technical support, pricing and delivery, contact Customer Service at 866 501 2992**

# Typical Applications



Chemical dosing units: SIMONA® PP and FR-PP grades



Semicon valve box: SIMONA® CPVC Clear; PVC CRP-1



Pump components: SIMONA® HDPE



Industrial parts cleaner: SIMONA® PP homopolymer



Plating and pickling tanks, covers: SIMONA® PP



Scientific furniture and equipment: SIMONA® PP, HDPE



Semicon wet process tanks: SIMONA® PVDF 740, PFA-M



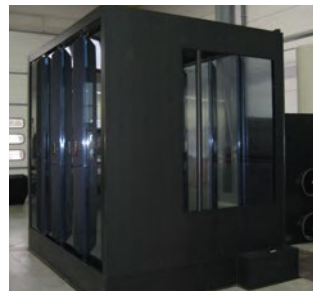
Fume vents, ducting: SIMONA® PVC Type I



Storage and transport tanks: SIMONA® HDPE, PP



Dual laminate process tanks: SIMONA® PVDF 740 fabric backed



Industrial finishing booths: SIMONA® HDPE (clear PVC windows)



Semicon wet process tank: SIMONA® PFA-M, unique 48 in. (1219 mm) wide sheet

**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.**

## **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

## **SIMONA Boltaron Inc.**

1 General Street  
Newcomerstown, OH 43832  
Phone 1 740 498 5900  
(US) 1 800 342 7444  
Fax 1 740 498 5448  
info@boltaron.com  
www.boltaron.com