



NATIONWIDE PLASTICS, INC.

The Authority on Plastics Manufacturing and Distribution

VERSADUR® Homopolymer PP – 500 Series

500 Natural, 515 European Grey, 520 White, 530 Black, 540 Blue, 581 Polyester Backed

SIMONA
AMERICA INC.

Product Specifications

Fabricators and Specifiers Benefits

- Excellent chemical and corrosion resistance
- Easy to fabricate, weld, machine
- Accurate to dimensional tolerances
- Stress relieved, square, flat sheets
- Color consistent
- Showcase quality surface
- Meets established ASTM specifications

Application Areas

- Semiconductor processing equipment
- Machined and fabricated parts
- Laboratory equipment
- Wet benches
- Food grade applications
- Prosthetics
- Etching and plating tanks
- Acid tanks
- Ducts, fume hoods and other protective equipment

Standards and Specifications

- ASTM D-4101 Group I Class I Grade I
- FDA Regulation Title 21 CFR 177.1520 (C1.1)
- Federal Specification LP-394B Type I (GP) Type III Grade IIIA Class III
- USDA Approval for direct contact with meat and poultry products (500 Natural and 520 White)
- Military Standard D/N/A
- UV Radiation Exposure 500 hours no visible change
- California Proposition 65 – Safe Drinking Water and Toxic Enforcement Act – passes
- UV Radiation Exposure 500 hours no visible change (515 European Grey)
- Standards and specifications not valid for 581 Grey Polyester Backed

Data and information used the preparation of this sheet have been obtained from controlled laboratory procedures and/or carefully documented empirical observations. As such, they may not be applicable to all uses and conditions. The reader is advised that no guarantees, written or implied, including guarantees as to the fitness for a particular purpose or use, are to be construed from this bulletin. Persons with questions as to the applicability of this material, or SIMONA AMERICA products to specific uses or situations are urged to contact our customer service department.

- stock availability
- availability on request

Product Range

Extruded Sheets – Standard Availability (in inch)

	1/32	1/16	3/32	1/8	3/16	1/4	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	1 3/4	2
Size: 48" x 96"															
500 Natural	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
515 European Grey													□	□	□
520 White	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
530 Black															
540 Blue															
Size: 48" x 120"															
500 Natural															
520 White															

520 White: 1/4" to 1" masked both sides; 530 Black: masked both sides; 540 Blue: masked 1 side

Extruded Sheets – Standard Availability (in mm)

	1	2	3	4	5	6	7	8	10	12	15	20	25	30	35
Size: 3000 x 1500															
581 Grey Polyester Backed	□	■	□	□	■										
Size: 20,000 x 1500															
581 Grey Polyester Backed	□	■	□	□	■										

Rods – Standard Availability (in inch)

	Length	Thickness
500 Natural	8 ft	1/4" to 2"
	6 ft	2 1/4" to 5 1/2"
	4 ft	6" to 14"

Call for custom lengths, other sizes (metric dimensions), welding rods, colors, masking or special requirements.

Technical Data

Property

Property	Test Method ASTM*	Unit	Typical Value
Physical			
Density	D-792	g/cc	0.91
Mechanical			
Tensile Strength	D-638	psi	4,900
Tensile Modulus	D-638	psi	210,000
Elongation	D-638	%	200
Izod Impact	D-256	ft. lbs./in.	1.0
Rockwell Hardness	D-785	"R" scale	92
Thermal			
Heat Distortion Temperature	D-648		
at 66 psi		°F	210
at 264 psi		°F	135
Coefficient of Thermal Expansion	D-696	in./in./°C	9 x 10 ⁻⁵
Electrical			
Volume Resistivity	D-257	ohm x cm	>10 ¹⁶

*American Society of Testing Materials

SIMONA AMERICA Inc. - 64 N. Conahan Drive - Hazleton, PA 18201 - USA - Phone 866-501-2992 - Fax 800-522-4857
mail@simona-america.com · www.simona-america.com

Dallas, Texas (Corporate Offices)
Houston, Texas
Brandon, Mississippi

phone 800-782-1836 / 214-239-3870
phone 800-282-4388 / 713-979-0660
phone 800-457-8623 / 601-825-7919

fax 214-239-3871
fax 713-979-0664
fax 601-825-7109

www.nationwideplastics.net

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