



# NATIONWIDE PLASTICS, INC.

The Authority on Plastics Manufacturing and Distribution

## VERSADUR® High-Density Polyethylene – 600 Series

600 Natural, 630 Black

**SIMONA**  
AMERICA INC.

### Product Specifications

#### Fabricators and Specifiers Benefits

- Excellent chemical and corrosion resistance
- Excellent impact and abrasion resistance
- Easy to fabricate, weld, machine
- Thermoformable
- High density
- UV-resistant (Black only)
- Stress relieved
- Accurate to dimensional tolerances
- Color consistent

#### Application Areas

- Food processing
- Tanks and vessels
- Machined and fabricated parts
- Laboratory equipment
- Chemical processing
- Corrosion-resistant wall coverings
- Wear, skid and deflector plates
- Ducts, hoods, chute liners and other protective equipment

#### Standards and Specifications

- ASTM D 1248-84 Type III, Class A (Natural), Class C (Black)
- LP 512C-LP-390, Class H, Type I, Grades 1 and 3
- FDA Regulation Title 21 CFR 177.1520 (Natural only)
- Federal Specification LP-390 Type III, Class H, Grade I

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.

### 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	1	2
<b>Size: 48" x 96"</b>															
600 Natural			■	■	■	■	■	■	■	■	■	■	■	■	■
630 Black				■	■	■	■	■	■	■	■	■	■	□	□

#### Rods – Standard Availability (in inch)

	Length	Thickness
600 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

	Test Method ASTM*	Unit	Typical Value
<b>Physical</b>			
Density	D-792	g/cc	0.95
Water Absorption (24 hrs at 73°F)	D-570	%	0.01
<b>Mechanical</b>			
Tensile Strength	D-638	psi	3,700
Flexural Modulus	D-638	psi	140,000
Elongation	D-638	%	550
Izod Impact	D-256	ft. lbs./in.	6.5
Rockwell Hardness	D-785	"R" scale	65
<b>Thermal</b>			
Heat Distortion Temperature	D-648		
at 66 psi		°F	156
at 264 psi		°F	131
Vicat Softening Temperature	D-1525	°F	255
Coefficient of Thermal Expansion	D-696	in./in./°C	12.4 x 10 <sup>-5</sup>
<b>Electrical</b>			
Volume Resistivity	D-257	ohm x cm	>6.2 x 10 <sup>16</sup>

\*American Society of Testing Materials

■ stock availability □ availability on request

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](http://www.nationwideplastics.net)

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