

# Silveron® Sheet & Rod with Antimicrobial Protection

(UHMW-PE blended with an antimicrobial additive)

The built in product protection of an antimicrobial is effective against a broad spectrum of bacteria. The antimicrobial AlphaSan® silver compound suppresses the growth of bacteria, algae, fungus, mold, and mildew when blended into plastics manufactured by Westlake and is effective, safe, durable and long lasting. Tests prove a noticeable decrease of fungus and common bacteria strains on treated materials. This is of particular importance in many industries due to the fact that a few bacteria can grow into millions in a matter of hours on almost any item or surface.

The AlphaSan Antimicrobial additive is acceptable for use in and around food processing areas (meat and poultry). The compound is registered under the NSF Non Food Compound Registration Program, a continuation of the United States Department of Agriculture (USDA) product approval and listing program as well as with the EPA.

Some of the known applications in the food service, poultry and meat processing industries for the antimicrobial sheet and rod include food processing and plant equipment, cutting boards, counter tops, bulk food containers and restaurant equipment.

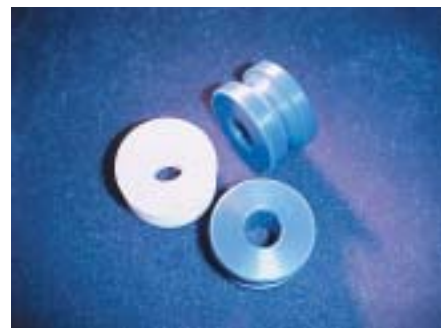
The following physical property information is based on actual test results obtained from actual sheet testing.

	Units	ASTM Test	Result
<b>Mechanical</b>			
Hardness-Shore D	—	D2240	67
Hardness-Rockwell R	—	D785	33
Izod Impact Strength			
Double 15° Notch @73°F	ft•lbs/in	D256	20.9
	ft•lbs/in <sup>2</sup>	F648	14.8
Tensile Strength			
@yield	psi	D638	3265
@break	psi	D638	5340
Tensile Elongation	%	D638	300
<b>Thermal</b>			
Coefficient of Thermal Expansion	in/in/°F	D696	9.2x10 <sup>-5</sup>
Heat Deflection Temperature @66 psi	°F	D648	181
<b>Other</b>			
Specific Gravity	—	D792	0.942
Water Absorption @24 hours	%	D570	0.015

all specimens were conditioned for a minimum of 40 hours at 73°F and 50%RH.



## Product Bulletin



polyethylene machined parts with antimicrobial protection

### Applications Include:

- Food processing equipment
- Meat and poultry equipment
- Cutting boards
- Counter tops
- Bulk food containers
- Food packaging
- Restaurant equipment

### Advantages of Polyethylene:

- Excellent abrasive wear resistance
- Low friction
- Low moisture absorption
- High impact strength, even at cold temperatures
- Excellent chemical resistance
- FDA and USDA compliant, NSF Standards 51, 61

### Advantages of Antimicrobial Additive:

- ANSI/NSF Standard 51 Food Equipment Materials conformant
- USDA List of Proprietary Substances and Nonfood compounds
- FDA FCN: 000001 Food Contact Polymers
- EPA FIFRA 11631-3 (RC2000) & 11631-4 (RC7000)

### Manufacturing Capabilities:

- Rod:** 1/2" to 4" diameter
- Sheet (Comp. Molded):** 3/8" to 4" thick
- Color:** Natural, custom colors available

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