

## Technical Data Sheet

# Polystone<sup>®</sup> P homopolymer natural - ASTM

### Typical characteristics

- High weldability
- Chemical resistance
- Good impact strength

### Typical industries

- Aquafarming
- Tecnologia per le camere bianche
- Dell'acqua potabile e delle acque reflue
- Costruzione di serbatoi e impianti chimici
- Plastics for chemical storage tanks
- Impianti galvanici
- Impianti di decapaggio dell'acciaio
- Impianti di ventilazione
- Impianti di depurazione dei gas di scarico
- Semiconductor Front-End Wet Bench

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	ASTM D792	g / cm <sup>3</sup>	0,91
Water Absorption	ASTM D570	%	<0.10
<b>Mechanical properties</b>			
Hardness	ASTM D2240	Shore D	72
Tensile Strength at yield 73°F	ASTM D638	psi	4700
Izod Impact, Notched	ASTM D256	ft-lb/in	1
Coefficient of Friction, Dynamic			0.25-0.28
<b>Thermal properties</b>			
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 <sup>-5</sup>	6
Melting Point		°F	323
Maximum Service Temperature, Air		°F	180

#### Röchling Industrial Gastonia, LP

903 Gastonia Technology Parkway • 28034 Dallas/United States (US) • Tel. +1 704 922-7814  
 rep@roechling-plastics.us • www.roechling.com/industrial/rep-us

Print: 10/05/2024 • Release: 12/10/2023 • Version: 1.0

PIM-Version: 43 • PIM-ID: 717965 • PIM-Code: 43-21-9.27.161-5.7.6.7.6.3.5.3.3.9-2



	Test method	Unit	Guideline value
Heat Deflection Temperature 264psi	ASTM D648	°F	210
Flammability, UL94		1/8 inch	HB
<b>Electrical properties</b>			
Dielectric constant	ASTM D150	1MHz	2.4
Dielectric strength	ASTM D149		45
Surface resistivity	ASTM D257	Ohm/cm	>10 <sup>14</sup>
<b>Compliance properties</b>			
FDA			Yes
NSF			No
USDA			Yes

The data stated above are average values ascertained by statistical tests on a regular basis. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.



**Röchling Industrial Gastonia, LP**

903 Gastonia Technology Parkway • 28034 Dallas/United States (US) • Tel. +1 704 922-7814  
 rep@roechling-plastics.us • www.roechling.com/industrial/rep-us

Print: 10/05/2024 • Release: 12/10/2023 • Version: 1.0  
 PIM-Version: 43 • PIM-ID: 717965 • PIM-Code: 43-21-9.27.161-5.7.6.7.6.3.5.3.3.9-2

