

## Technical Data Sheet

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

### Typical characteristics

- High weldability
- Chemical resistance
- Good impact strength

### Typical industries

- Aquafarming
- Clean-Room Technology
- 식수 및 폐수 처리 기술
- 화학 가공 산업
- 화학물질 저장 탱크
- 도금 공장
- 강철 산세 플랜트
- 환기 플랜트
- 배기 정화 플랜트

	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	69
Tensile Strength at yield 73°F	ASTM D638	psi	3500
Elongation at Break	ASTM D638	%	≥300
Flexural Modulus	ASTM D790	psi	155000
Compressive Strength	ASTM D695	psi	4400
Izod Impact, Notched	ASTM D256	ft-lb/in	8.0
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
Heat Deflection Temperature 264psi	ASTM D648	°F	210
Flammability, UL94		1/8 inch	HB

### Röchling Industrial Gastonia, LP

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

Print: 27/07/2024 • Release: 20/09/2023

PIM-Version: 43 • PIM-ID: 717966 • PIM-Code: 43-21-9.27.161-5.7.6.7.4.6.4.4-2

Page 1 / 2 (Dates in DD/MM/YYYY)



	Test method	Unit	Guideline value
<b>Electrical properties</b>			
Dielectric constant	ASTM D150	1MHz	2.5
Dielectric strength	ASTM D149		45
Surface resistivity	ASTM D257	Ω/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  
 info.gastonia@roechling.com • www.roechling.com/industrial/rep-us

Print: 27/07/2024 • Release: 20/09/2023

PIM-Version: 43 • PIM-ID: 717966 • PIM-Code: 43-21-9.27.161-5.7.6.7.7.4.6.4.4-2

