

Technical Data Sheet

Polystone[®] G Pipe Grade - ASTM

Typical characteristics

- Excellent weldability
- UV-stabilized and colourfast
- Chemical resistance

Typical industries

- Chemical Processing Industry
- Mechanical Engineering Industry
- Building industry
- Aquafarming
- Drinking & Waste Water Technology
- Chemical storage tanks

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	0.96
Water Absorption	ASTM D570	%	<0.10
Carbon Black Content	ISO6964	%	2
Mechanical properties			
Hardness	ASTM D2240	Shore D	65
Tensile Strength at yield 73°F	ASTM D638	psi	3625
Tensile Modulus	ASTM D638	psi	150000
Elongation at Break	ASTM D638	%	>600
Flexural Strength	ASTM D790	psi	120,000
Flexural Modulus	ASTM D790	psi	150000
Izod Impact, Notched	ASTM D256	ft-lb/in	9.0
Thermal properties			
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 ⁻⁵	6
Vicat Softening Point	ISO306	°F	259
Maximum Service Temperature, Air		°F	180
Heat Deflection Temperature 264psi	ASTM D648	°F	175
Brittleness Temperature	ASTM D746	°F	-180
Compliance properties			

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 • Draft: 21/09/2023

PIM-Version: 25 • PIM-ID: 717956 • PIM-Code: 25-19-9.9.27-7.5.8.5.6.7-2



	Test method	Unit	Guideline value
FDA			No
NSF			No
USDA			No

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 • Draft: 21/09/2023

PIM-Version: 25 • PIM-ID: 717956 • PIM-Code: 25-19-9.9.27-7.5.8.5.6.7-2

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

