

Technical Data Sheet

Polystone[®] G virgin natural - ASTM

PE-HD / PE 300

Typical characteristics

- Good machinability
- Good weldability
- Chemical resistant
- Good mechanical properties

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	0.955
Water Absorption	ASTM D570	%	0.10
Mechanical properties			
Hardness	ASTM D2240	Shore D	65
Tensile Strength at yield 73°F	ASTM D638	psi	4000
Tensile Modulus	ASTM D638	psi	217000
Elongation at Break	ASTM D638	%	>700
Flexural Strength	ASTM D790	psi	210000
Izod Impact, Notched	ASTM D256	ft-lb/in	3.5
Coefficient of Friction, Dynamic			0.20-0.29
Thermal properties			
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 ⁻⁵	6
Melting Point		°F	268
Maximum Service Temperature, Air		°F	180
Heat Deflection Temperature 264psi	ASTM D648	°F	165
Brittleness Temperature	ASTM D746	°F	-103
Flammability, UL94		1/8 inch	HB
Electrical properties			

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	Test method	Unit	Guideline value
Dielectric constant	ASTM D150	1MHz	2.4
Surface resistivity	ASTM D257	Ω/cm	>10 ¹⁴
Compliance properties			
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.



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