

## Technical Data Sheet

# Polystone<sup>®</sup> G virgin UV-stabilized natural - ASTM

PE-HD / PE 300

### Typical characteristics

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

### Typical industries

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

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	ASTM D792	g / cm <sup>3</sup>	0.955
Water Absorption	ASTM D570	%	0.10
Carbon Black Content	ISO6964	%	n/a
<b>Mechanical properties</b>			
Tensile Strength at Yield	ASTM D638	psi	4000
Hardness	ASTM D2240	Shore D	65
Tensile Modulus	ASTM D638	psi	217000
Tensile Elongation	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
<b>Thermal properties</b>			
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 <sup>-5</sup>	6
Melting Point		°F	268
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	165
Brittleness Temperature	ASTM D746	°F	-103
Flammability, UL94		1/8 inch	HB
<b>Compliance properties</b>			

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	Test method	Unit	Guideline value
FDA			No
NSF			No
USDA			No
ASTM Approval			D-4976

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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