

Technical Data Sheet

Polystone[®] P homopolymer grey - ASTM

Typical characteristics

- Chemical resistance
- High weldability
- Good impact strength

Typical industries

- Aquafarming
- Clean-Room Technology
- Drinking & Waste Water Technology
- Chemical Processing Industry
- Chemical storage tanks
- Galvanic plants
- Steel-pickling plants
- Ventilation plants
- Exhaust-air cleaning plants

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	0,91
Water Absorption	ASTM D570	%	≤0.1
Mechanical properties			
Hardness	ASTM D785	Shore D	72
Tensile Strength at yield 73°F	ASTM D638	psi	4700
Elongation at Break	ASTM D638	%	≥400
Flexural Strength	ASTM D790	psi	180,000
Compressive Strength	ASTM D695	psi	5000
Izod Impact, Notched	ASTM D256	ft-lb/in	1
Coefficient of Friction, Dynamic			0,25-0,28
Thermal properties			
CTE, linear	ASTM D696	in/in/°F	6
Melting Point	ASTM D1525	°F	323
Maximum Service Temperature, Air		°F	180
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	210
Flammability, UL94		1/8 inch	HB



	Test method	Unit	Guideline value
Electrical properties			
Dielectric constant	ASTM D150	1MHz	2,4
Dielectric strength	ASTM D149	V/mil	45
Surface resistivity	ASTM D257	Ohm/cm	$\geq 10^{14}$
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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