Technical Data Sheet

Polystone® P homopolymer natural - ASTM

PP

Typical characteristics

- Good weldability
- Chemical resistant
- 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
- Semiconductor Front-End Wet Bench

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm^3	0,91
Water Absorption	ASTM D570	%	<0.10
Mechanical properties			
Hardness	ASTM D2240	Shore D	72
Tensile Strength at yield 73°F	ASTM D638	psi	4700
Izod Impact, Notched	ASTM D256	ft-lb/in	1
Coefficient of Friction, Dynamic			0.25-0.28
Thermal properties			
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10^{-5}	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
Electrical properties			
Dielectric constant	ASTM D150	1MHz	2.4

	Test method	Unit	Guideline value
Dielectric strength	ASTM D149	kV / mm	45
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.