

Technical Data Sheet

Polystone[®] P copolymer EHS grey - ASTM

PP

Typical characteristics

- High rigidity
- Good weldability
- Corrosion resistant

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	%	<0.10
Carbon Black Content	ISO6964	%	n/a
Mechanical properties			
Tensile Strength at Yield	ASTM D638	psi	3500
Hardness	ASTM D2240	Shore D	69
Tensile Elongation	ASTM D638	%	>300
Flexural Modulus	ASTM D790	psi	155000
Compressive Strength	ASTM D695	psi	4000
Izod Impact, Notched	ASTM D256	ft-lb/in	8
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	230
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	210

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	Test method	Unit	Guideline value
Deflection Temperature at 1.8Mpa (66psi)	ASTM D648	°F	217
Flammability, UL94		1/8 inch	HB
Electrical properties			
Dielectric constant	ASTM D150	1MHz	2.5
Dielectric strength	ASTM D149	kV / mm	45
Surface resistivity	ASTM D257	Ω/cm	>10 ¹⁴
Compliance properties			
FDA			Yes
NSF			No
USDA			Yes
ASTM Approval			D-4101

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.

