

Polystone® P Grey Homopolymer EHS - ASTM (polypropylene homopolymer + High-Temp additive (higher qty))

Product characteristics

- High rigidity
- Very good weldability
- High chemical and corrosion resistance

Product applications

- Chemical engineering and tank building
- Ventilation technology
- Pump engineering

	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	4700
Hardness	ASTM D2240	Shore D	72
Tensile Elongation	ASTM D638	%	>400
Flexural Modulus	ASTM D790	psi	180000
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			
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 ⁻⁵	6
Melting Point		°F	323
Maximum Service Temperature, Air		°F	239
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	210
Deflection Temperature at 1.8Mpa (66psi)	ASTM D648	°F	217
Flammability, UL94		1/8 inch	HB
Electrical properties			
Dielectric constant	ASTM D150	1 MHz	2.4
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.