

Polystone® P (Polypropylene) Röchling Grey

Product characteristics

- Excellent chemical resistance
- High weldability
- High impact strength

Typical field of application

- Chemical engineering & tank building
- Ventilation & duct systems
- Pump parts

	ASTM Test method	Unit	Homopolymer	Copolymer
Physical Properties				
Specific Gravity	D792	g/cm ³	0.91	0.91
Water Absorption	D570	%	≤0.1	≤0.1
Mechanical Properties				
Hardness	D785	Shore D	72	69
Tensile Strength at yield 73 °F	D638	psi	4700	3500
Elongation at Break	D638	%	≥400	≥300
Flexural Strength	D790	psi	180,000	155,000
Compressive Strength	D695	psi	5000	4000
Izod Impact, Notched	D256	ft-lb/in	1	8
Coefficient of Friction, Dynamic	-	-	0.25-0.28	0.25-0.28
Thermal properties				
CTE, linear	D696	In/in/°F	6x10 ⁻⁵	6x10 ⁻⁵
Melting Point	D1525	°F	323	323
Maximum Service Temperature, Air	-	°F	239	230
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	210	210
Flammability, UL94	-	1/8 inch	HB	HB
Electrical properties				
Dielectric constant	D150	-	2.4	2.5
Surface resistivity	D257	Ohm/cm	≥10 ¹⁴	≥10 ¹⁴
Dielectric strength	D149	V/mil	45	45
Compliance Properties				
FDA	-	-	Yes	Yes
NSF	-	-	No	No
USDA	-	-	Yes	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.

Röchling Engineering Plastics
903 Gastonia Technology Parkway, Dallas, NC 28034, USA - Tel.:704 922 7814 – info@roechling-plastics.us – www.roechling-plastics.us