

Technical data sheet

Polystone® D (High molecular weight / PE-500) black

Product characteristics

- Good mechanical properties
- Very wear, cutting & scratch resistant
- Good sliding properties and good resistance to aging

Typical field of application

- Clean room and semiconductor applications
- Chemical engineering
- Tank construction

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm ³	0.94
Mechanical Properties	tested method	unit	value
Hardness	D785	Shore D	63 - 69
Tensile Strength at yield	D638	psi	3,625
Tensile Strength at Break	D638	psi	5,500
Flexural Modulus	D790	psi	150,000
Elongation	D638	%	600
Izod Impact, Notched	D256	ft-lb/in	9.0
Relative Volumetric Abrasion Loss	-	-	90
Coefficient of Friction, Steel	-	-	0.17 – 0.2
	-	-	0.10 – 0.2
Thermal properties	tested method	unit	value
CTE, linear	D696	1 / K	1.9 x 10 ⁻⁴
Continuous Service Temperature in Air	-	°F	180°
Melting Point	D789	°F	275° - 280°

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.