

Technical data sheet

Polystone® MPG Glass Filled (UHMW-PE)

Product characteristics

- Extremely high wear resistance
- Good sliding properties with soft sliding partners
- Low moisture absorption

Typical field of application

- Control disks
- Paper industry
- Material handling industry

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm ³	0.96
Water Absorption	D570	%	≤0.01
Mechanical Properties	tested method	unit	value
Hardness	D785	Shore D	63-69
Tensile Strength at yield 73 °F	D638	psi	2,700
Tensile Modulus	D638	psi	115,000
Elongation at Break	D638	%	≥265
Flexural Strength	D790	psi	3,200
Compressive Strength	D695	psi	3,000
Izod Impact, Notched	D256	ft-lb/in	No Break
Coefficient of Friction, Dynamic	-	-	0.10 - 0.22
Coefficient of Friction, Static	-	-	0.15 - 0.20
Wear Resistance	Sand Slurry	-	82
Thermal Properties	tested method	unit	value
CTE, linear	D696	1/K	1.1 x 10 ⁻⁴
Melting Point	D3418	°F	266 - 275°
Maximum Service Temperature, Air	-	°F	180°
Flammability, UL94	-	1/8 inch	HB
Electrical Properties	tested method	unit	value
Dielectric constant	D150	-	2.3
Surface resistivity	D257	Ohm/cm	>10 ¹⁵
Dielectric strength	D149	kV/mm	900
Compliance Properties	tested method	unit	value
FDA	-	-	No
NSF	-	-	No
USDA	-	-	No

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.