

## Technical Data Sheet

# Polystone<sup>®</sup> MPG Glass Filled - ASTM

PE-UHMW / PE 1000

### Typical characteristics

- Low coefficient of friction
- Long lifetime
- Good wear properties

### Typical industries

- Mechanical Engineering Industry
- Conveyor Technology & Automation

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	ASTM D792	g / cm <sup>3</sup>	0.96
Water Absorption	ASTM D570	%	0.01
<b>Mechanical properties</b>			
Wear resistance	Sand-slurry		82
Hardness	ASTM D2240	Shore D	63 - 69
Tensile Strength at yield 73°F	ASTM D638	psi	2700
Tensile Modulus	ASTM D638	psi	100000
Elongation at Break	ASTM D638	%	>265
Compressive Strength	ASTM D695	psi	3000
Coefficient of Friction, Dynamic			0.10-0.22
Coefficient of Friction, Static			0.15-0.20
Izod Impact Strength	ASTM D4020		110
<b>Thermal properties</b>			
CTE, linear	ASTM D696	1/K	1.0 x 10 <sup>-4</sup>
Melting Point		°F	266 - 275
Maximum Service Temperature, Air		°F	180
Flammability, UL94		1/8 inch	HB
<b>Electrical properties</b>			
Volume Resistivity	ASTM D257	Ωcm	>10 <sup>15</sup>
Dielectric constant	ASTM D150	1MHz	2.3
Surface resistivity	ASTM D257	Ω/cm	>10 <sup>12</sup>

[ri-inquiry@roechling.com](mailto:ri-inquiry@roechling.com) • [www.roechling.com/industrial/materials](http://www.roechling.com/industrial/materials)



	Test method	Unit	Guideline value
<b>Compliance properties</b>			
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.



[ri-inquiry@roechling.com](mailto:ri-inquiry@roechling.com) • [www.roechling.com/industrial/materials](http://www.roechling.com/industrial/materials)

