Technical Data Sheet

Polystone® MPG black extruded

PE-UHMW / PE 1000

Typical characteristics

- Long lifetime
- Good sliding properties with soft sliding partners
- Low moisture absorption
- Good wear resistance

Typical industries

- 机械工程行业
- 输送机技术和自动化

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm^3	>0,96
Water absorption	DIN EN ISO 62	%	0,01
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
Molecular weight	-	10^6 g/mol	~ 9
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	>20
Elongation at break	DIN EN ISO 527	%	>50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>700
Notched impact strength	DIN EN ISO 11542-2	kJ / m^2	>100
Shore hardness	DIN EN ISO 868	scale D	>65
Thermal properties			
Melting temperature	ISO 11357-3	°C	135
Thermal conductivity	DIN 52612-1	W / (m * K)	0,40
Thermal capacity	DIN 52612	kJ / (kg * K)	1,90
Coefficient of linear thermal expansion	DIN 53752	10^{-6} / K	150 ... 230
Service temperature, long term	Average	°C	-250 … 80
Service temperature, short term (max.)	Average	°C	130 ... 135
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	79
Electrical properties			

	Test method	Unit	Guideline value
Volume resistivity	DIN EN 62631-3-1	Ω * cm	$>10^{14}$
Surface resistivity	DIN EN 62631-3-2	Ω	$>10^{14}$
Dielectric strength	IEC 60243	kV / mm	>40

The data stated above are average values ascertained by statistical tests on a regular basis. They are in accordance with DIN EN 15860. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.