

Technical Data Sheet

Polystone® D EL black

PE-HD / PE 500

Typical characteristics

- Good electrical conductivity
- Good mechanical properties
- Good sliding properties

Typical industries

- 机械工程行业

	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
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	>22
Elongation at break	DIN EN ISO 527	%	>50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>1000
Shore hardness	DIN EN ISO 868	scale D	65
Thermal properties			
Melting temperature	ISO 11357-3	°C	130 ... 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	-100 ... 80
Service temperature, short term (max.)	Average	°C	80
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	79
Electrical properties			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	<10 ⁵
Surface resistivity	DIN EN 62631-3-2		<10 ⁵

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.

ri-inquiry@roechling.com • www.roechling.com/industrial/materials

Print: 13/06/2025 • Release: 20/09/2023

PIM-Version: 327 • PIM-ID: 718590 • PIM-Code: 327-8-17.17.223-5-5

Company-IDs: 20000-1

Page 1 / 1 (Dates in DD/MM/YYYY)

