

Technical Data Sheet

Polystone[®] FM black

PE-HD / PE 500

Typical characteristics

- Good sliding properties
- Good mechanical properties

Typical industries

- 建筑行业

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	>0,94
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	>19
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>700
Shore hardness	DIN EN ISO 868	scale D	>63
Compressive strength	ISO 3597-3	N/mm ²	4 - 6
Thermal properties			
Melting temperature	ISO 11357-3	°C	130 ... 135
Thermal conductivity	DIN 52612-1	W / (m * K)	0,41
Thermal capacity	DIN 52612	kJ / (kg * K)	1,90
Service temperature, long term	Average	°C	-80 ... 80
Service temperature, short term (max.)	Average	°C	100

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: 10/06/2026 • Release: 20/09/2023 • Version: 1.0
 PIM-ID: 591163 • PIM-Code: 1094-26-223.17-10-5
 Company-IDs: 20000-1

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

