

Technical Data Sheet

Polystone® MK FL black

PE-UHMW / PE 1000

Typical characteristics

- Certified according to EN 45545-2
- Self-extinguishing

Typical industries

- Vehicle Construction

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	>1,0
Water absorption	DIN EN ISO 62	%	<0,1
Flammability (Thickness 3 mm / 6 mm)	UL 94		V0
Molecular weight	-	10 ⁶ g/mol	~ 9
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	>17
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>800
Notched impact strength	DIN EN ISO 11542-2	kJ / m ²	>70
Shore hardness	DIN EN ISO 868	scale D	>63
Thermal properties			
Melting temperature	ISO 11357-3	°C	130 ... 135
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ / K	150 ... 230
Service temperature, long term	Average	°C	-200 ... 80
Service temperature, short term (max.)	Average	°C	130
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	79
Electrical properties			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	>10 ¹⁴
Surface resistivity	DIN EN 62631-3-2	Ω	>10 ¹⁴

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: 16/10/2026 • Release: 20/09/2023 • Version: 1.0
 PIM-ID: 591210 • PIM-Code: 1089-9-18.12-7-5
 Company-IDs: 20000-1

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

