

## Technical Data Sheet

# Polystone<sup>®</sup> MK FL + AST black extruded

PE-UHMW / PE 1000

### Typical characteristics

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

### Typical industries

- 机械工程行业
- 车辆构造

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	>1,0
Water absorption	DIN EN ISO 62	%	0,1
Flammability (Thickness 3 mm / 6 mm)	UL 94		V0
Molecular weight	-	10 <sup>6</sup> g/mol	~ 9
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	>20
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>1000
Shore hardness	DIN EN ISO 868	scale D	>63
<b>Thermal properties</b>			
Melting temperature	ISO 11357-3	°C	130 ... 135
Coefficient of linear thermal expansion	DIN 53752	10 <sup>-6</sup> / 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
<b>Electrical properties</b>			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	10 <sup>9</sup>
Surface resistivity	DIN EN 62631-3-2	Ω	10 <sup>9</sup>

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

