

### Technical Data Sheet

# Polystone<sup>®</sup> M EHS natural pressed

PE-UHMW / PE 1000

#### Typical characteristics

- Oxidation inhibitory
- High temperature resistance
- No moisture absorption
- High abrasion resistance
- Good wear resistance
- 10/2011/EU compliant

#### Typical industries

- Construction de machines et d'installations
- La transformation des viandes, des poissons, des volailles

	Test method	Unit	Guideline value
<b>General properties</b>			
Densité	DIN EN ISO 1183-1	g / cm <sup>3</sup>	>0,93
Water absorption	DIN EN ISO 62	%	0,01
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
Molecular weight	-	10 <sup>6</sup> g/mol	~ 9
<b>Mechanical properties</b>			
Elongation at break	DIN EN ISO 527	%	>50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>650
Notched impact strength	DIN EN ISO 11542	kJ / m <sup>2</sup>	>100
Shore hardness	DIN EN ISO 868	scale D	>63
<b>Thermal properties</b>			
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 <sup>-6</sup> / K	150 ... 230
Service temperature, long term	Average	°C	-250 ... 110
Service temperature, short term (max.)	Average	°C	130
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	80
<b>Electrical properties</b>			
Dielectric constant	IEC 60250		2,3

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

Print: 25/05/2026 • Release: 27/10/2023 • Version: 3.0  
 PIM-ID: 718604 • PIM-Code: 1099-28-9.11.11.63.143.15-5.5-5  
 Company-IDs: 20000-1

Page 1 / 2 (Dates in DD/MM/YYYY)



	Test method	Unit	Guideline value
Dielectric dissipation factor (10 <sup>6</sup> Hz)	IEC 60250		0,0001
Volume resistivity	DIN EN 62631-3-1	Ω * cm	>10 <sup>14</sup>
Surface resistivity	DIN EN 62631-3-2	Ω	>10 <sup>14</sup>
Comparative tracking index	IEC 60112		600
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.



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

Print: 25/05/2026 • Release: 27/10/2023 • Version: 3.0  
 PIM-ID: 718604 • PIM-Code: 1099-28-9.11.11.63.143.15-5.5-5  
 Company-IDs: 20000-1

Page 2 / 2 (Dates in DD/MM/YYYY)

