

## Technical Data Sheet

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

PE-UHMW / PE 1000

### Typical characteristics

- Good sliding properties with soft sliding partners
- Low coefficient of friction
- Good wear properties

### Typical industries

- 输送机技术和自动化
- 饮料行业
- 机械工程行业
- 食品行业

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	>0,92
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>			
Yield stress	DIN EN ISO 527	MPa	>18
Elongation at break	DIN EN ISO 527	%	>50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>500
Notched impact strength	DIN EN ISO 11542-2	kJ / m <sup>2</sup>	>100
Shore hardness	DIN EN ISO 868	scale D	>57
<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 ... 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>14</sup>

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	Test method	Unit	Guideline value
Surface resistivity	DIN EN 62631-3-2	$\Omega$	$>10^{14}$
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.



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Print: 26/05/2026 • Release: 20/09/2023 • Version: 2.0  
PIM-ID: 591134 • PIM-Code: 1108-33-11.12.126-11.6.5.5-5  
Company-IDs: 20000-1

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