

## Technical Data Sheet

# Matrox<sup>®</sup> FC natural pressed

PE-UHMW / PE 1000

### Typical characteristics

- FDA compliant
- High abrasion resistance
- Low moisture absorption

### Typical industries

- Bulk Material Handling

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	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		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
Wear resistance	Sand-slurry		80
Sand Slurry	1018 Steel=10		~ 80
<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	80
<b>Electrical properties</b>			
Dielectric constant	IEC 60250		2,3
Dielectric dissipation factor (10 <sup>6</sup> Hz)	IEC 60250		0,0001

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	Test method	Unit	Guideline value
Volume resistivity	DIN EN 62631-3-1	$\Omega \cdot \text{cm}$	$>10^{14}$
Surface resistivity	DIN EN 62631-3-2	$\Omega$	$>10^{14}$
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.



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