

Technical Data Sheet

POLIZENE UHMW 1000 BIANCO

Typical characteristics

- Low coefficient of friction
- Very good abrasion and wear resistance
- Good impact strength

Typical industries

- Tecnologia di trasporto e automazione
- Prodotti da forno o dolciari
- lavorazione carne, pesce e pollame
- Ingegneria meccanica e impiantistica
- Industria alimentare

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	>0,93
Water absorption	DIN EN ISO 62	%	<0,01
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
Molecular weight	-	10 ⁶ g/mol	~ 9
Mechanical properties			
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 ²	>100
Shore hardness	DIN EN ISO 868	scale D	>63
Thermal properties			
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 ⁻⁶ / 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
Electrical properties			

	Test method	Unit	Guideline value
Dielectric constant	IEC 60250		2,3
Dielectric dissipation factor (10 ⁶ Hz)	IEC 60250		0,0001
Volume resistivity	DIN EN 62631-3-1	Ohm * cm	>10 ¹⁴
Surface resistivity	DIN EN 62631-3-2	Ohm	>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.

Technical Data Sheet

POLIZENE UHMW 1000 VERDE

Typical characteristics

- Low coefficient of friction
- Very good abrasion and wear resistance
- Good impact strength

Typical industries

- Tecnologia di trasporto e automazione
- Prodotti da forno o dolciari
- lavorazione carne, pesce e pollame
- Ingegneria meccanica e impiantistica
- Industria alimentare

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	>0,93
Water absorption	DIN EN ISO 62	%	<0,01
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
Molecular weight	-	10 ⁶ g/mol	~ 9
Mechanical properties			
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 ²	>100
Shore hardness	DIN EN ISO 868	scale D	>63
Thermal properties			
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
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Electrical properties			

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Dielectric strength	IEC 60243	kV / mm	>40

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Technical Data Sheet

POLIZENE UHMW 1000 BLU

Typical characteristics

- Very wear, cutting and scratch resistant
- Physiologically safe
- Good sliding and wear behaviour

Typical industries

- Ingegneria meccanica e impiantistica

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	>0,93
Water absorption	DIN EN ISO 62	%	<0,01
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
Molecular weight	-	10 ⁶ g/mol	~ 9
Mechanical properties			
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 ²	>100
Shore hardness	DIN EN ISO 868	scale D	>63
Thermal properties			
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
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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
Electrical properties			
Dielectric constant	IEC 60250		2,3
Dielectric dissipation factor (10 ⁶ Hz)	IEC 60250		0,0001

	Test method	Unit	Guideline value
Volume resistivity	DIN EN 62631-3-1	Ohm * cm	>10 ¹⁴
Surface resistivity	DIN EN 62631-3-2	Ohm	>10 ¹⁴
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV / mm	>40

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Technical Data Sheet

POLIZENE UHMW 1000 NERO

Typical characteristics

- Good mechanical properties
- Low coefficient of friction
- Very good abrasion and wear resistance
- Good impact strength

Typical industries

- Tecnologia di trasporto e automazione
- Ingegneria meccanica e impiantistica

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	>0,93
Water absorption	DIN EN ISO 62	%	<0,01
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
Molecular weight	-	10 ⁶ g/mol	~ 9
Mechanical properties			
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Notched impact strength	DIN EN ISO 11542	kJ / m ²	>100
Shore hardness	DIN EN ISO 868	scale D	>63
Thermal properties			
Melting temperature	ISO 11357-3	°C	130 ... 135
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Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	80
Electrical properties			
Dielectric constant	IEC 60250		2,3
Dielectric dissipation factor (10 ⁶ Hz)	IEC 60250		0,0001

	Test method	Unit	Guideline value
Volume resistivity	DIN EN 62631-3-1	Ohm * cm	>10 ¹⁴
Surface resistivity	DIN EN 62631-3-2	Ohm	>10 ¹⁴
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV / mm	>40

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