Technical Data Sheet

LubX® C blue extruded

PE-UHMW / PE 1000

Typical characteristics

- Energy-saving
- Especially aligned to POM and Steel
- FDA/21CFR177.1520 compliant
- Noise-reducing
- Coefficient of friction with POM as sliding partner up to 75% less than of PE-UHMW
- Coefficient of friction with steel as sliding partner up to 60% less than of PE-UHMW

Typical industries

- 机械工程行业
- 建筑行业
- 输送机技术和自动化
- 食品行业
- 肉类、鱼类和禽类加工
- 烘焙店和糖果店
- 饮料行业

	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
Non-toxicity			+
Moulding Compound PE	DIN ISO 1872-1		UHMW-PE-QCD 35-3-4
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	19
Elongation at break	DIN EN ISO 527	%	>50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	650
Notched impact strength	DIN EN ISO 179	kJ / m^2	no break
Shore hardness	DIN EN ISO 868	scale D	60
Sliding partner POM MOD A (0,25 m/s - 0,25 MPa)	REP - Tribology - Test		0,08
Sliding partner POM MOD B (0,25 m/s - 0,25 MPa)	REP - Tribology - Test		0,11
Thermal properties			
Melting temperature	ISO 11357-3	°C	133 – 135

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	Test method	Unit	Guideline value
Coefficient of linear thermal expansion	DIN 53752	10^{-6} / K	150 - 230 (*)
Service temperature, long term	Average	°C	-150 … 80 (*)
Service temperature, short term (max.)	Average	°C	130 (*)
Electrical properties			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	$>10^{15}$
Surface resistivity	DIN EN 62631-3-2	Ω	$>10^{14}$

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. (*) literature values