

LubX® C extr.

Product characteristics

- Energy saving
- Especially aligned to POM and Steel
- Suitable for contact with foodstuffs (FDA/21CFR 177.1520)

Typical field of application

- Materials-handling technology
- Automation

	Test method	Unit	Value
General properties			
Density	DIN EN ISO 1183-1	g/cm ³	0,93
Moulding Compound	DIN ISO 1872-1		UHMW-PE-QCD 35-3-4
Water absorption	DIN EN ISO 62	%	<0,01
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
Non-toxicity			+
Mechanical properties			
Tensile stress at yield	DIN EN ISO 527-2/1B/50	N/mm ²	19
Elongation at yield stress	DIN EN ISO 527-2/1B/50	%	18
Elongation at break	DIN EN ISO 527-1	%	>50
Tensile modulus of elasticity	DIN EN ISO 527-2/1B/1	N/mm ²	500
Impact strength	DIN EN ISO 179	mJ/mm ²	no break
Notched impact strength (charpy)	DIN EN ISO 179	mJ/mm ²	no break
Shore hardness	DIN EN ISO 868	Scale D	60
Wear resistance	Sand-slurry		90
Sliding properties: partner POM	REP – Tribology – Test		0,08
Sliding properties: partner steel	REP – Tribology – Test		0,11
Thermal properties			
Crystalline grain melting range	DSC	°C	133-135
Coefficient of linear thermal expansion (20-100 °C)	DIN 53752	1/K*10 ⁻⁴	2*10 (*)
Temperature range	Average	°C	-150 ... 80 (*)
Temperature range (short-term)	Average	°C	130 (*)
Electrical properties			
Volume resistivity	DIN VDE 0303	Ω *cm	>10 ¹⁵
Surface resistivity	DIN VDE 0303	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 / depends on application