

## LubX® C pressed

### 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
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g/cm <sup>3</sup>	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			+
<b>Mechanical properties</b>			
Tensile stress at yield	DIN EN ISO 527-2/1B/50	N/mm <sup>2</sup>	20
Elongation at yield stress	DIN EN ISO 527-2/1B/50	%	14
Elongation at break	DIN EN ISO 527-1	%	>50
Tensile modulus of elasticity	DIN EN ISO 527-2/1B/1	N/mm <sup>2</sup>	650
Impact strength	DIN EN ISO 179	mJ/mm <sup>2</sup>	no break
Notched impact strength (charpy)	DIN EN ISO 179	mJ/mm <sup>2</sup>	no break
Impact strength with 15° -notch	DIN EN ISO 179	mJ/mm <sup>2</sup>	100
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
<b>Thermal properties</b>			
Crystalline grain melting range	DSC	°C	133-135
Coefficient of linear thermal expansion (20-100 °C)	DIN 53752	1/K*10 <sup>-4</sup>	2*10 (*)
Temperature range	Average	°C	-150 ... 80 (*)
Temperature range (short-term)	Average	°C	130 (*)
<b>Electrical properties</b>			
Volume resistivity	DIN VDE 0303	Ω *cm	>10 <sup>15</sup>
Surface resistivity	DIN VDE 0303	Ω	>10 <sup>14</sup>

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