

### Technical Data Sheet

## LubX<sup>®</sup> S grey extruded

PE-UHMW / PE 1000

#### Typical characteristics

- Energy-saving
- Especially aligned to the sliding partner PET
- 10/2011/EU compliant
- Good wear resistance

#### Typical industries

- Mechanical Engineering Industry
- Conveyor Technology & Automation

	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
Non-toxicity			+
Moulding Compound PE	DIN ISO 1872-1		UHMW-PE-QCD 35-3-4
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	19
Elongation at yield stress	DIN EN ISO 527	%	>50
Elongation at break	DIN EN ISO 527	%	>50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	500
Notched impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	no break
Shore hardness	DIN EN ISO 868	scale A	60
Shore hardness	DIN EN ISO 868	scale D	60
<b>Thermal properties</b>			
Melting temperature	ISO 11357-3	°C	133 ... 135
Coefficient of linear thermal expansion	DIN 53752	10 <sup>-6</sup> / K	150 ... 230 (*)
Service temperature, long term	Average	°C	-150 ... 80 (*)
Service temperature, short term (max.)	Average	°C	130 (*)
<b>Electrical properties</b>			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	≥10 <sup>15</sup>



	Test method	Unit	Guideline value
Volume resistivity	DIN EN 62631-3-1	$\Omega \cdot \text{cm}$	$>10^{15}$
Surface resistivity	DIN EN 62631-3-2	$\Omega$	$\geq 10^{14}$

