

Technical Data Sheet

LubX[®] CV blue extruded

PE-UHMW / PE 1000

Typical characteristics

- Good sliding properties even at higher load
- Good dry-running properties
- Food compliant according to 10/2011/EU, 1935/2004/EC, FDA
- Good machinability
- GMP 2023/2006 EC compliant

Typical industries

- Mechanical Engineering Industry
- Paper Industry
- Conveyor Technology & Automation
- Food Industry
- Meat, Fish and Poultry Processing
- Bakery and Confectionery
- Beverage Industry

| | Test method | Unit | Guideline value |
|---|------------------------|----------------------|-----------------|
| General properties | | | |
| Density | DIN EN ISO 1183-1 | g / cm ³ | 0,94 |
| Water absorption | DIN EN ISO 62 | % | 0,01 |
| Flammability (Thickness 3 mm / 6 mm) | UL 94 | | HB |
| Non-toxicity | | | + |
| Mechanical properties | | | |
| Yield stress | DIN EN ISO 527 | MPa | 19 |
| Elongation at break | DIN EN ISO 527 | % | >250 |
| Tensile modulus of elasticity | DIN EN ISO 527 | MPa | 500 |
| Notched impact strength | DIN EN ISO 179 | kJ / m ² | no break |
| Shore hardness | DIN EN ISO 868 | scale D | 60 |
| Sliding properties: partner POM (0,5 m/s - 0,5 MPa) | REP – Tribology – Test | | 0,13 |
| Thermal properties | | | |
| Melting temperature | ISO 11357-3 | °C | 133 – 135 |
| 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 (*) |

ri-inquiry@roechling.com • www.roechling.com/industrial/materials



| | Test method | Unit | Guideline value |
|------------------------------|------------------|--------------------------|-----------------|
| Electrical properties | | | |
| Volume resistivity | DIN EN 62631-3-1 | $\Omega \cdot \text{cm}$ | $>10^{15}$ |
| 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



ri-inquiry@roechling.com • www.roechling.com/industrial/materials

Print: 01/05/2026 • Release: 23/05/2025 • Version: 8.0
 PIM-ID: 718556 • PIM-Code: 934-32-16.18.11.70.15-5.8.11.5.5.5.6-4
 Company-IDs: 20000-1

Page 2 / 2 (Dates in DD/MM/YYYY)

