

### Technical Data Sheet

## LubX<sup>®</sup> 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    |
|-------------------------------------------------|------------------------|---------------------|--------------------|
| <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 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 <sup>2</sup> | 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               |
| <b>Thermal properties</b>                       |                        |                     |                    |
| Melting temperature                             | ISO 11357-3            | °C                  | 133 – 135          |

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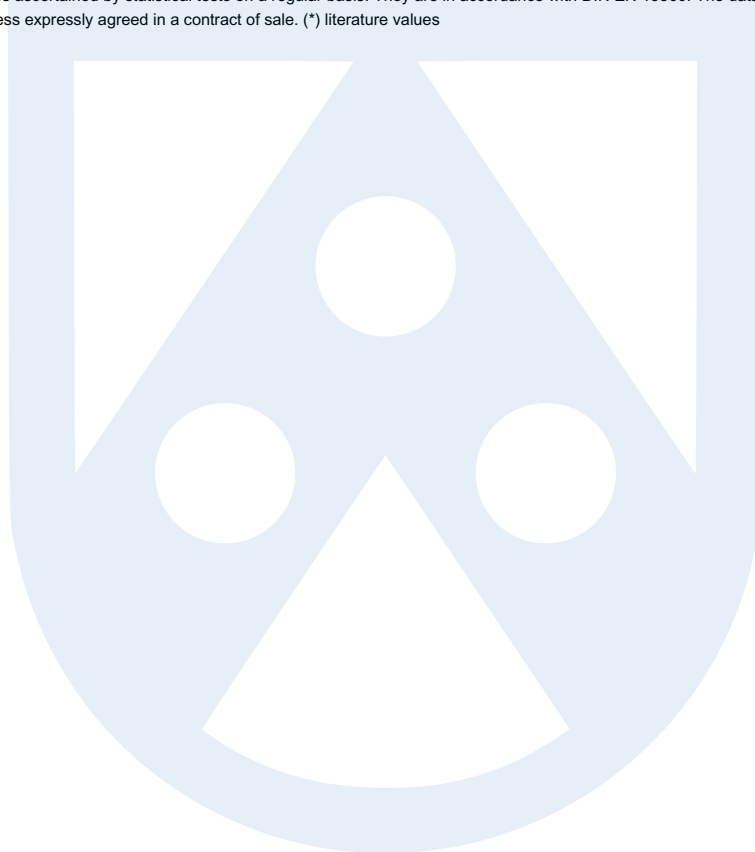
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|                                         | Test method      | Unit                     | Guideline value |
|-----------------------------------------|------------------|--------------------------|-----------------|
| Coefficient of linear thermal expansion | DIN 53752        | $10^{-6} / \text{K}$     | 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 | $\Omega \cdot \text{cm}$ | $>10^{15}$      |
| Surface resistivity                     | DIN EN 62631-3-2 | $\Omega$                 | $>10^{14}$      |

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



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