

## Technical Data Sheet

# LubX<sup>®</sup> C C blue pressed

### 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
- Food compliant according to 10/2011/EU, 1935/2004/EC, FDA

### Typical industries

- Mechanical Engineering Industry
- Building industry
- Conveyor Technology & Automation
- Food Industry
- Bakery and Confectionery
- Beverage Industry

|   | 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                 | 20                 |
| 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                 |
| 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               |

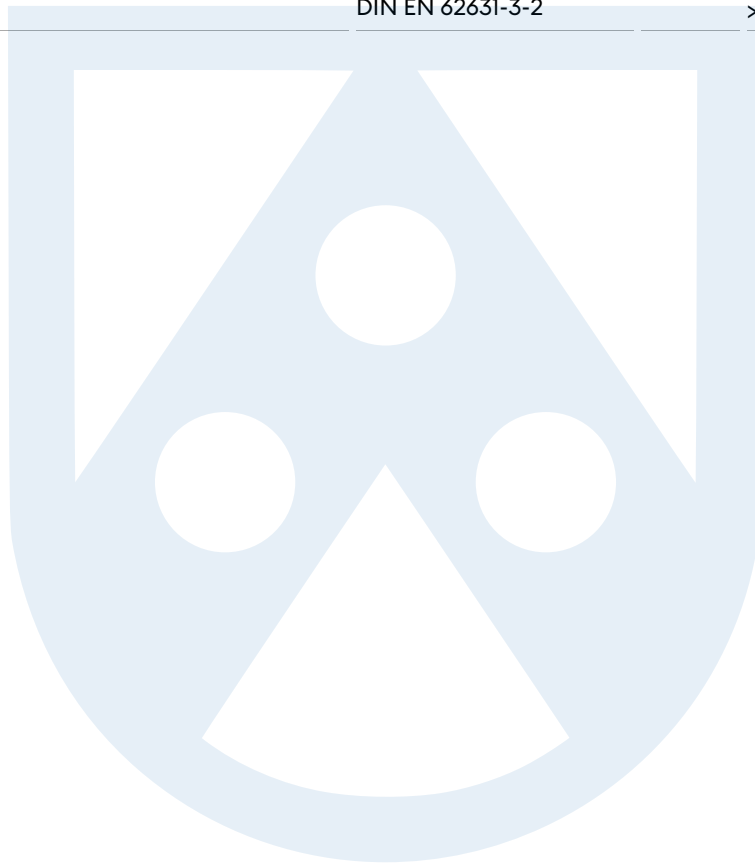
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|   | Test method      | Unit                 | Guideline value   |
|---|------------------|----------------------|-------------------|
| <b>Thermal properties</b>               |                  |                      |                   |
| Melting 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> |
| Volume resistivity                      | DIN EN 62631-3-1 | Ω * cm               | >10 <sup>15</sup> |
| Surface resistivity                     | DIN EN 62631-3-2 |                      | >10 <sup>14</sup> |



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