# TECHNICAL DATA SHEET
# LURANYL® KR 2403 G4 TW 26343

PPE/PS-I, injection moulding grade, 20% glass fibre reinforced, high heat resistance, high stiffness, KTW-, ACS- and WRAS-approval up to 85°C, black

| PROPERTY | Test Method | Condition | Unit | Value* |
|---|---|---|---|---|
| **MECHANICAL.....** | | | | |
| Tensile Modulus | DIN EN ISO 527 | 1 mm/min<br>23 °C | MPa | 7,500 |
| Tensile Strength | DIN EN ISO 527 | 5 mm/min<br>23 °C | MPa | 128 |
| Elongation at Break | DIN EN ISO 527 | 5 mm/min<br>23 °C | % | 4.5 |
| Flexural Modulus | DIN EN ISO 178 | 2 mm/min<br>23 °C | MPa | - |
| Flexural Strength | DIN EN ISO 178 | 2 mm/min<br>23 °C | MPa | 170 |
| Notched Impact Strength (Charpy) | DIN EN ISO 179/1eA | 80 x 10 x 4 mm<br>23 °C | kJ/m² | 10 |
| Notched Impact Strength (Charpy) | DIN EN ISO 179/1eA | 80 x 10 x 4 mm<br>-30 °C | kJ/m² | 9 |
| Impact Strength (Charpy) | DIN EN ISO 179/1eU | 80 x 10 x 4 mm<br>23 °C | kJ/m² | 30 |
| Impact Strength (Charpy) | DIN EN ISO 179/1eU | 80 x 10 x 4 mm<br>-30 °C | kJ/m² | 30 |
| **PHYSICAL.....** | | | | |
| Density | DIN EN ISO 1183 | 23 °C, 50 % RH | g/cm³ | 1.20 |
| Water Absorption | DIN EN ISO 62 | 23 °C, 50 % RH,<br>24 h | % | < 0.10 |
| **THERMAL.....** | | | | |
| Heat deflection temperature (HDT/A) | DIN EN ISO 75-1 | 1,8 MPa | °C | - |
| Vicat Softening Temperature (B 50) | DIN EN ISO 306 | 50 N, 50 °C/h | °C | 145 |
| Melt Volume-Flow Rate (MVR) | DIN EN ISO 1133 | 250 °C, 21.6 kg | cm³/10 min | 13 |
| Thermal conductivity | DIN 52612 | -- | W/(K·m) | 0.22 |
| Thermal Coefficient of Linear Expansion | ISO 11359-2 | 23 °C - 80 °C | $10^{4} \cdot K^{-1}$ | 0.4 - 0.5 |
| Processing Shrinkage | DIN EN ISO 294-4 | 23 °C | % | 0.3 - 0.5 |
| Flammability<br>(own test) | UL94 | 1.5 mm | -- | HB |