

TECHNICAL DATA SHEET

LURANYL[®] KR 2401

ROMIRA

PPE/PS-I, injection moulding grade, impact-resistant, high stiffness

| PROPERTY | Test Method | Condition | Unit | Value* |
|----------|-------------|-----------|------|--------|
|----------|-------------|-----------|------|--------|

MECHANICAL.....

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|----------------------------------|--------------------|--------------------------|-------------------|-------|
| Tensile Modulus | DIN EN ISO 527 | 1 mm/min 23 °C | MPa | 2,500 |
| Tensile Strength | DIN EN ISO 527 | 50 mm/min 23 °C | MPa | 52 |
| Elongation at Yield | DIN EN ISO 527 | 50 mm/min 23 °C | % | 4 |
| Elongation at Break | DIN EN ISO 527 | 50 mm/min 23 °C | % | - |
| Flexural Modulus | DIN EN ISO 178 | 2 mm/min 23 °C | MPa | - |
| Flexural Strength | DIN EN ISO 178 | 2 mm/min 23 °C | MPa | 90 |
| Notched Impact Strength (Charpy) | DIN EN ISO 179/1eA | 80 x 10 x 4 mm 23 °C | kJ/m ² | 20 |
| Notched Impact Strength (Charpy) | DIN EN ISO 179/1eA | 80 x 10 x 4 mm -30 °C | kJ/m ² | 12 |
| Impact Strength (Charpy) | DIN EN ISO 179/1eU | 80 x 10 x 4 mm 23 °C | kJ/m ² | n.b. |
| Impact Strength (Charpy) | DIN EN ISO 179/1eU | 80 x 10 x 4 mm -30 °C | kJ/m ² | n.b. |

PHYSICAL.....

| | | | | |
|------------------|-----------------|-------------------------|-------------------|--------|
| Density | DIN EN ISO 1183 | 23 °C | g/cm ³ | 1.06 |
| Water Absorption | DIN EN ISO 62 | 23 °C, 50 % RH, 24 h | % | < 0.10 |

THERMAL.....

| | | | | |
|--|------------------|-----------------|----------------------------------|-----------|
| Heat deflection temperature (HDT/A) | DIN EN ISO 75-1 | 1,8 MPa | °C | 106 |
| Vicat Softening Temperature (B 50) | DIN EN ISO 306 | 50 N, 50 °C/h | °C | 117 |
| Melt Volume-Flow Rate (MVR) | DIN EN ISO 1133 | 250 °C, 21.6 kg | cm ³ /10 min | 110 |
| Thermal conductivity | DIN 52612 | -- | W/(K·m) | 0.18 |
| Thermal Coefficient of Linear Expansion | ISO 11359-2 | 23 °C - 80 °C | 10 ⁻⁴ K ⁻¹ | 0.6 - 0.7 |
| Processing Shrinkage | DIN EN ISO 294-4 | 23 °C | % | 0.5 - 0.7 |
| Flammability (File No.: 148878 → UL listed) | UL94 | 0.75 mm | -- | HB |

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