

# TECHNICAL DATA SHEET

## LURANYL<sup>®</sup> KR 2452-3

# ROMIRA

PPE/PS-I, extrusion and injection moulding grade, high heat resistance, non-halogen flame retardant

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

### MECHANICAL.....

|                                  |                    |                          |                   |       |
|----------------------------------|--------------------|--------------------------|-------------------|-------|
| Tensile Modulus                  | DIN EN ISO 527     | 1 mm/min<br>23 °C        | MPa               | 2,600 |
| Tensile Strength                 | DIN EN ISO 527     | 50 mm/min<br>23 °C       | MPa               | 65    |
| Tensile Strain at Break          | DIN EN ISO 527     | 50 mm/min<br>23 °C       | %                 | 6     |
| Elongation at Break              | DIN EN ISO 527     | 50 mm/min<br>23 °C       | %                 | -     |
| 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               | 115   |
| Notched Impact Strength (Charpy) | DIN EN ISO 179/1eA | 80 x 10 x 4 mm<br>23 °C  | kJ/m <sup>2</sup> | 15    |
| Notched Impact Strength (Charpy) | DIN EN ISO 179/1eA | 80 x 10 x 4 mm<br>-30 °C | kJ/m <sup>2</sup> | 11    |
| Impact Strength (Charpy)         | DIN EN ISO 179/1eU | 80 x 10 x 4 mm<br>23 °C  | kJ/m <sup>2</sup> | n.b.  |
| Impact Strength (Charpy)         | DIN EN ISO 179/1eU | 80 x 10 x 4 mm<br>-30 °C | kJ/m <sup>2</sup> | n.b.  |

### PHYSICAL.....

|                  |                 |                         |                   |        |
|------------------|-----------------|-------------------------|-------------------|--------|
| Density          | DIN EN ISO 1183 | 23 °C, 50 % RH          | g/cm <sup>3</sup> | 1.07   |
| Water Absorption | DIN EN ISO 62   | 23 °C, 50 % RH,<br>24 h | %                 | < 0.15 |

### THERMAL.....

|   |                  |                 |                                    |           |
|---|------------------|-----------------|------------------------------------|-----------|
| Heat deflection temperature (HDT/A)     | DIN EN ISO 75-1  | 1,8 MPa         | °C                                 | 118       |
| Vicat Softening Temperature (B 50)      | DIN EN ISO 306   | 50 N, 50 °C/h   | °C                                 | 138       |
| Melt Volume-Flow Rate (MVR)             | DIN EN ISO 1133  | 250 °C, 21.6 kg | cm <sup>3</sup> /10 min            | 26        |
| Thermal conductivity                    | DIN 52612        | --              | W/(K·m)                            | 0.18      |
| Thermal Coefficient of Linear Expansion | ISO 11359-2      | 23 °C - 80 °C   | 10 <sup>-4</sup> · K <sup>-1</sup> | 0.6 - 0.7 |
| Processing Shrinkage                    | DIN EN ISO 294-4 | 23 °C           | %                                  | 0.5 - 0.7 |
| Flammability (own test)                 | UL94             | 1.5 mm          | --                                 | V-1       |

\* = The given values are guide values only and no binding minimal values or product specifications. Factors as the mould design, processing conditions and colouring of the product may influence the properties. The information is given in good faith and based on our current knowledge, but the actual application is beyond our control. Thus the processors is responsible for carrying out their own tests and experiments. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

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