

# Technical Data Sheet

## LURANYL® KR 2451/3



PPE+PS-I Blend with halogen free flame retardant; good heat resistance

| <i>Properties</i>                   | <i>Unit</i>                        | <i>Test Method</i> | <i>Test Conditions</i>         | <i>Value*</i> | <i>Remarks</i> |
|-------------------------------------|------------------------------------|--------------------|--------------------------------|---------------|----------------|
| <i>Mechanical .....</i>             |                                    |                    |                                |               |                |
| Tensile Modulus                     | MPa                                | ISO 527            | 23°C<br>1mm/min                | 2,500         |                |
| Tensile Strength                    | MPa                                | ISO 527            | 23°C<br>50 mm/min              | 60            |                |
| Elongation at Yield                 | %                                  | ISO 527            | 23°C<br>50 mm/min              | 5             |                |
| Flexural Strength                   | MPa                                | ISO 178            | 23°C<br>2 mm/min               | 110           |                |
| Impact Strength Notched (Charpy)    | kJ/m²                              | ISO 179/1eA        | 80 x 10 x 4 mm<br>23°C / -30°C | 14 / 10       |                |
| Impact Strength (Charpy)            | kJ/m²                              | ISO 179/1eU        | 80 x 10 x 4 mm<br>23°C / -30°C | n.b. / n.b.   |                |
| <i>Physical .....</i>               |                                    |                    |                                |               |                |
| Density                             | g/cm³                              | ISO 1183           | 23°C, 50% RH                   | 1.08          |                |
| Water Absorption                    | %                                  | ISO 62             | 23°C, 24 h                     | < 0.15        |                |
| <i>Thermal .....</i>                |                                    |                    |                                |               |                |
| Heat Distortion Temperature (HDT A) | °C                                 | ISO 75             | 1.80 MPa                       | 92            |                |
| Vicat Softening Temperature (B 50)  | °C                                 | ISO 306            | 50°C/h<br>50N                  | 110           |                |
| Melt Volume Rate MVR                | cm³/10 min                         | ISO 1133           | 250°C<br>21.6 kg               | 138           |                |
| Thermal Conductivity                | W/(K·m)                            | DIN 52612          | 260x260x10 mm                  | 0.18          |                |
| Linear Thermal Expansion            | 10 <sup>-4</sup> · K <sup>-1</sup> | ISO 11359-2        | 23°C - 80°C                    | 0.6 – 0.7     |                |
| Moulding Shrinkage                  | %                                  | ISO 294-4          | 23°C<br>3,2 mm                 | 0.5 – 0.7     |                |
| Flammability                        | Class                              | UL 94              | 1.6 mm                         | V-1           | UL listed      |

\* = Average figures which could vary with each production batch due to addition of pigments, antistatic agents, slip agents, light stabilizers or other additives.

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