

Technical Data Sheet

LURANYL® KR 2454/3 G6



PPE+PS-I Blend with 30% glass fibre; halogen free flame retardant;
high 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 1mm/min | 8,000 | |
| Tensile Strength | MPa | ISO 527 | 23°C 5 mm/min | 105 | |
| Nominal Elongation at Break | % | ISO 527 | 23°C 5 mm/min | 2,5 | |
| Flexural Strength | MPa | ISO 178 | 23°C 2 mm/min | 160 | |
| Impact Strength Notched (Charpy) | kJ/m ² | ISO 179/1eA | 80 x 10 x 4 mm 23°C / -30°C | 10 / 10 | |
| Impact Strength (Charpy) | kJ/m ² | ISO 179/1eU | 80 x 10 x 4 mm 23°C / -30°C | 35 / 35 | |
| <i>Physical</i> | | | | | |
| Density | g/cm ³ | ISO 1183 | 23°C, 50% RH | 1.29 | |
| Water Absorption | % | ISO 62 | 23°C, 24 h | < 0.15 | |
| <i>Thermal</i> | | | | | |
| Heat Distortion Temperature (HDT A) | °C | ISO 75 | 1.80 MPa | 135 | |
| Vicat Softening Temperature (B 50) | °C | ISO 306 | 50°C/h 50N | 145 | |
| Melt Volume Rate MVR | cm ³ /10 min | ISO 1133 | 250°C 21.6 kg | 12 | |
| Thermal Conductivity | W/(K·m) | DIN 52612 | 260x260x10 mm | 0.23 | |
| Linear Thermal Expansion | 10 ⁻⁴ · K ⁻¹ | ISO 11359-2 | 23°C - 80°C | 0.3 - 0.4 | |
| Moulding Shrinkage | % | ISO 294-4 | 23°C 3,2 mm | 0.3 - 0.5 | |
| 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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