

# Luranyl® KR 2402

Polyphenylene Ether + PS

ROMIRA GmbH

## Message:

PPE+PS-I Blend with balanced combination of impact resistance and rigidity for parts with special demands on heat resistance

| General Information |                         |  |  |
|---------------------|-------------------------|--|--|
| UL YellowCard       | E148878-100122019       |  |  |
| Features            | Impact resistance, good |  |  |
|                     | Thermal stability, good |  |  |
| Forms               | Particle                |  |  |
| Processing Method   | Extrusion               |  |  |
|                     | Injection molding       |  |  |

| Physical                                    | Nominal Value | Unit                   | Test Method |
|---------------------------------------------|---------------|------------------------|-------------|
| Density                                     | 1.06          | g/cm <sup>3</sup>      | ISO 1183    |
| Melt Volume-Flow Rate (MVR) (250°C/21.6 kg) | 30.0          | cm <sup>3</sup> /10min | ISO 1133    |
| Molding Shrinkage (23°C, 3.20 mm)           | 0.50 - 0.70   | %                      | ISO 294-4   |
| Water Absorption (23°C, 24 hr)              | < 0.10        | %                      | ISO 62      |

| Mechanical                          | Nominal Value | Unit | Test Method  |
|-------------------------------------|---------------|------|--------------|
| Tensile Modulus (23°C)              | 2500          | MPa  | ISO 527-2/1  |
| Tensile Stress (Yield, 23°C)        | 64.0          | MPa  | ISO 527-2/50 |
| Tensile Strain (Yield, 23°C)        | 5.0           | %    | ISO 527-2/50 |
| Flexural Stress <sup>1</sup> (23°C) | 105           | MPa  | ISO 178      |

| Impact                           | Nominal Value | Unit              | Test Method |
|----------------------------------|---------------|-------------------|-------------|
| Charpy Notched Impact Strength   |               |                   | ISO 179/1eA |
| -30°C                            | 15            | kJ/m <sup>2</sup> | ISO 179/1eA |
| 23°C                             | 25            | kJ/m <sup>2</sup> | ISO 179/1eA |
| Charpy Unnotched Impact Strength |               |                   | ISO 179/1eU |
| -30°C                            | No Break      |                   | ISO 179/1eU |
| 23°C                             | No Break      |                   | ISO 179/1eU |

| Thermal                                           | Nominal Value   | Unit     | Test Method |
|---------------------------------------------------|-----------------|----------|-------------|
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 119             | °C       | ISO 75-2/A  |
| Vicat Softening Temperature                       | 136             | °C       | ISO 306/B50 |
| CLTE - Flow (23 to 80°C)                          | 6.0E-5 - 7.0E-5 | cm/cm/°C | ISO 11359-2 |
| Thermal Conductivity                              | 0.18            | W/m/K    | DIN 52612   |

| Flammability           | Nominal Value | Test Method |
|------------------------|---------------|-------------|
| Flame Rating (1.60 mm) | HB            | UL 94       |

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature     | 80.0 - 100    | °C   |
| Drying Time            | 2.0 - 4.0     | hr   |
| Suggested Max Moisture | 0.050         | %    |
| Suggested Max Regrind  | 5             | %    |
| Processing (Melt) Temp | 260 - 300     | °C   |
| Mold Temperature       | 60.0 - 100    | °C   |
| Injection Rate         | Moderate      |      |
| Screw Speed            | 12 - 18       | rpm  |

#### Injection instructions

Maximum Residence Time: 4 to 10 min Injection Pressure: moderate to high

| Extrusion              | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature     | 80.0 - 100    | °C   |
| Drying Time            | 2.0 - 4.0     | hr   |
| Suggested Max Moisture | < 0.050       | %    |
| Cylinder Zone 1 Temp.  | 240 - 280     | °C   |
| Cylinder Zone 2 Temp.  | 240 - 280     | °C   |
| Cylinder Zone 3 Temp.  | 240 - 280     | °C   |
| Cylinder Zone 4 Temp.  | 240 - 280     | °C   |
| Cylinder Zone 5 Temp.  | 240 - 280     | °C   |
| Melt Temperature       | < 280         | °C   |

#### Extrusion instructions

Maximum Residence Time: 4 to 10 min

#### NOTE

1. 2.0 mm/min

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT