

30.01.2025



LURAN® S KR2867C WU, ASA+PC UL94 V0

- MSDS available on request
- LURAN S® KR2867C WU contains SVHC

Alle Angaben ohne Gewähr

www.okw.com

Easy flowing injection moulding grade containing bromine-, chlorine- and antimony-free flame retardant. Available in Europe only.

| Rheological properties | Value | Unit | Test Standard |
|-----------------------------|-------|------------------------|-----------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 45 | cm ³ /10min | ISO 1133 |
| Temperature | 260 | °C | - |
| Load | 5 | kg | - |
| Molding shrinkage, parallel | 0.5 | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | 0.9 | % | ISO 294-4, 2577 |

| Mechanical Properties | Value | Unit | Test Standard |
|---|----------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 2600 | MPa | ISO 527 |
| Yield stress | 61 | MPa | ISO 527 |
| Yield strain | 4 | % | ISO 527 |
| Nominal strain at break | 50 | % | ISO 527 |
| Impact Strength (Charpy), +23°C | no break | kJ/m ² | ISO 179/1eU |
| Impact Strength (Charpy), -30°C | no break | kJ/m ² | ISO 179/1eU |
| Notched Impact Strength (Charpy), +23°C | 16 | kJ/m ² | ISO 179/1eA |
| Notched Impact Strength (Charpy), -30°C | 9 | kJ/m ² | ISO 179/1eA |

| Thermal Properties | Value | Unit | Test Standard |
|---|-------|-------|----------------|
| ISO Data | | | |
| Temp. of deflection under load (1.80 MPa) | 96 | °C | ISO 75-1/-2 |
| Temp. of deflection under load (0.45 MPa) | 100 | °C | ISO 75-1/-2 |
| Vicat softening temperature, 50°C/h 50N | 105 | °C | ISO 306 |
| Coeff. of Linear Therm. Expansion, parallel | 75 | E-6/K | ISO 11359-1/-2 |
| Burning Behav. at 1.5 mm Nom. Thickn. | V-0 | class | UL 94 |
| Thickness tested | 1.6 | mm | - |
| UL recognition | yes | - | - |
| Burning Behav. at thickness h | V-0 | class | UL 94 |
| Thickness tested | 3.0 | mm | - |
| UL recognition | yes | - | - |
| Oxygen index | 30 | % | ISO 4589-1/-2 |

| Electrical Properties | Value | Unit | Test Standard |
|------------------------------|-------|-------|---------------|
| ISO Data | | | |
| Relative permittivity, 100Hz | 3.1 | - | IEC 62631-2-1 |
| Relative permittivity, 1MHz | 3 | - | IEC 62631-2-1 |
| Dissipation Factor, 100Hz | 60 | E-4 | IEC 62631-2-1 |
| Dissipation Factor, 1MHz | 100 | E-4 | IEC 62631-2-1 |
| Volume Resistivity | 1E13 | Ohm*m | IEC 62631-3-1 |
| Surface Resistivity | 1E14 | Ohm | IEC 62631-3-2 |
| Comparative tracking index | 250 | - | IEC 60112 |

| Other Properties | Value | Unit | Test Standard |
|---------------------|-------|-------------------|----------------|
| ISO Data | | | |
| Water Absorption | 0.4 | % | Sim. to ISO 62 |
| Humidity absorption | 0.15 | % | Sim. to ISO 62 |
| Density | 1190 | kg/m ³ | ISO 1183 |

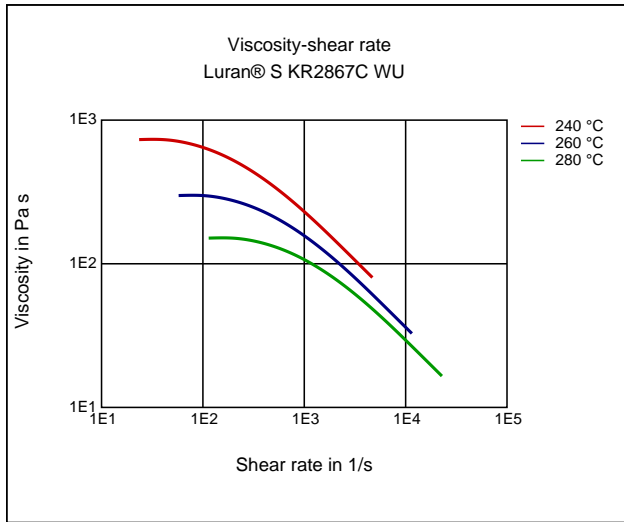
| Rheological calculation properties | Value | Unit | Test Standard |
|------------------------------------|-------|------|---------------|
| ISO Data | | | |
| Ejection temperature | 100 | °C | - |

| Test specimen production | Value | Unit | Test Standard |
|---------------------------------------|-------|------|---------------|
| ISO Data | | | |
| Injection Molding, melt temperature | 280 | °C | ISO 294 |
| Injection Molding, mold temperature | 80 | °C | ISO 294 |
| Injection Molding, injection velocity | 200 | mm/s | ISO 294 |

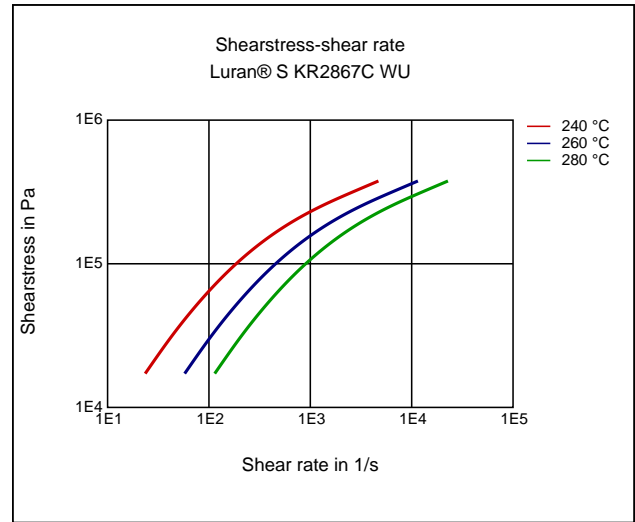
| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 85 - 95 | °C | - |
| Pre-drying - Time | 2 - 4 | h | - |
| Melt temperature | 260 - 280 | °C | - |
| Mold temperature | 40 - 60 | °C | - |

Diagrams

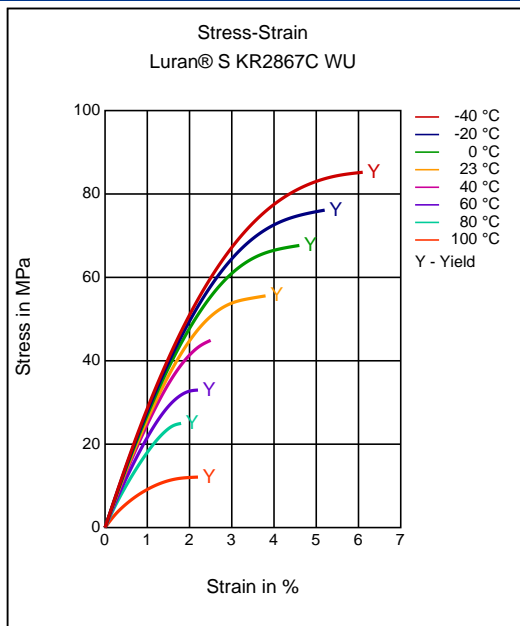
Viscosity-shear rate



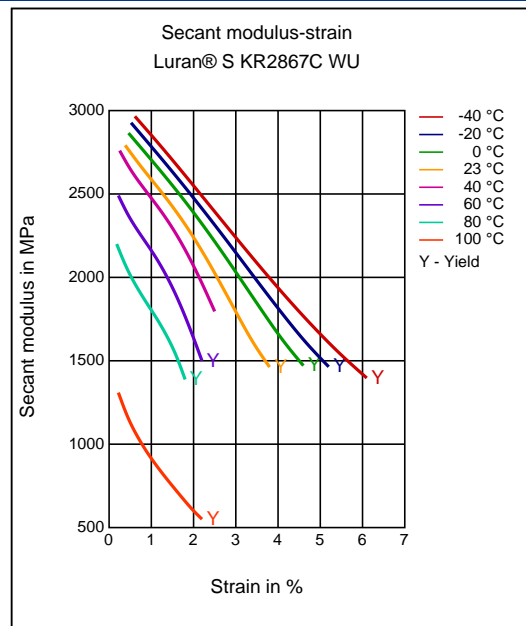
Shearstress-shear rate



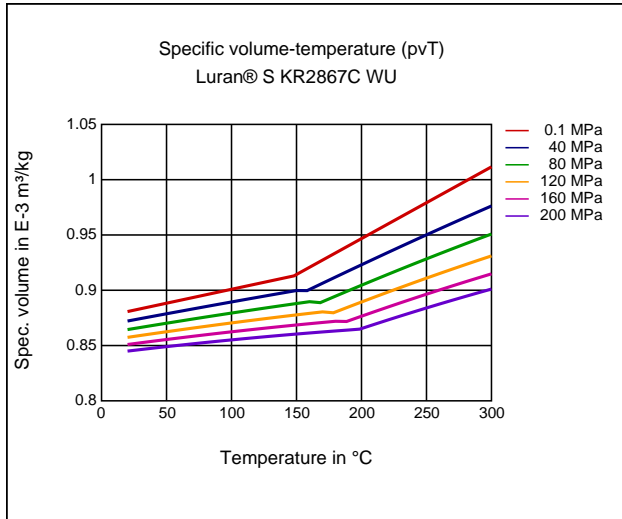
Stress-strain



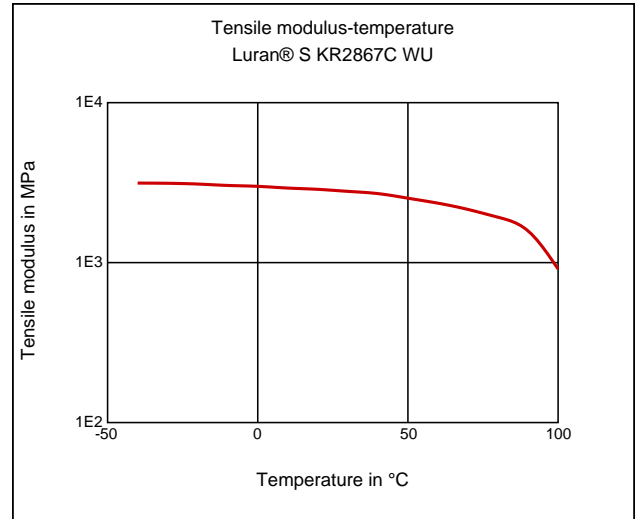
Secant modulus-strain



Specific volume-temperature (pvT)



Tensile Modulus-Temperature



Characteristics

Processing

Injection Molding

Delivery form

Pellets

Additives

Release agent

Special Characteristics

Light stabilized or stable to light, UV stabilized, Heat aging stabilized

Injection Molding

PREPROCESSING

Pre/Post-processing, Pre-drying, Temperature: 85 - 95 °C
Pre/Post-processing, Pre-drying, Time: 2 - 4 h

PROCESSING

injection molding, Melt temperature, range: 260 - 280 °C
injection molding, Melt temperature, recommended: 280 °C
injection molding, Mold temperature, range: 40 - 60 °C
injection molding, Mold temperature, recommended: 80 °C

Chemical Media Resistance

Acids

- ✓ Acetic Acid (5% by mass) (23 °C)
- ✓ Citric Acid solution (10% by mass) (23 °C)
- ✓ Lactic Acid (10% by mass) (23 °C)
- ✓ Nitric Acid (40% by mass) (23 °C)
- ✓ Sulfuric Acid (38% by mass) (23 °C)
- ✓ Sulfuric Acid (5% by mass) (23 °C)
- ✓ Chromic Acid solution (40% by mass) (23 °C)

Alcohols

- ✓ Isopropyl alcohol (23 °C)
- ✓ Methanol (23 °C)
- ✓ Ethanol (23 °C)

Hydrocarbons

- ✓ n-Hexane (23 °C)
- ✓ iso-Octane (23 °C)

Mineral oils

- ✓ SAE 10W40 multigrade motor oil (23 °C)

Standard Fuels

- ✓ Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23 °C)
- ✓ Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23 °C)
- ✓ Diesel fuel (pref. ISO 1817 Liquid F) (23 °C)

Salt solutions

- ✓ Sodium Chloride solution (10% by mass) (23 °C)
- ✓ Sodium Hypochlorite solution (10% by mass) (23 °C)
- ✓ Sodium Carbonate solution (20% by mass) (23 °C)
- ✓ Sodium Carbonate solution (2% by mass) (23 °C)
- ✓ Zinc Chloride solution (50% by mass) (23 °C)

Other

- ✓ Water (23 °C)
- ✓ Deionized water (90 °C)

Disclaimer

Liability Exclusion

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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