

POWERSIL[®] 735 LIGHTGRAY A/B

Liquid Silicone Rubber (LSR)

POWERSIL[®] 735 LIGHT GRAY A/B is a low viscous two-component compound with excellent processing properties. Its vulcanizates are noted for high tracking and erosion resistance, their good mechanical properties especially for high tear strength as well as for their excellent dielectric behavior.

Properties

- ready-to-use, two-component system
- excellent dielectric properties
- excellent mechanical properties, especially a high tear strength
- excellent processing due to its low viscosity, also with suitable mixing and dosing equipment only
- best suitable for outdoor applications (UV & weathering resistance, excellent hydrophobic properties)

Specific features

- Resistant to tracking and erosion

Technical data

Properties Uncured

| Property | Condition | Value | Method |
|---|-----------|--------------|-----------------|
| Viscosity, dynamic of Component A (10 s ⁻¹) | - | 150000 mPa·s | DIN EN ISO 3219 |
| Viscosity, dynamic of Component B (10 s ⁻¹) | - | 150000 mPa·s | DIN EN ISO 3219 |
| Mix ratio | - | 1 : 1 | A : B |

These figures are only intended as a guide and should not be used in preparing specifications.

Catalyzed

| Property | Condition | Value | Method |
|--|-----------|--------------|-----------------|
| Viscosity, dynamic (10 s ⁻¹) | - | 150000 mPa·s | DIN EN ISO 3219 |

These figures are only intended as a guide and should not be used in preparing specifications.

Properties Catalyzed A+B

| Property | Condition | Value | Method |
|----------------------|-----------|--------|--------|
| Kick-off temperature | - | 115 °C | - |
| Pot Life | 23 °C | 3 d | - |

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Properties Cured

Cure conditions: 5 min / 165 °C and post-cured for 4 h at 200 °C.

| Property | Condition | Value | Method |
|----------------------------------|-----------|----------------------------|---------------------|
| Appearance | - | gray | - |
| Hardness Shore A | - | 39 | DIN ISO 48-4 |
| Density | - | 1.08 g/cm ³ | DIN EN ISO 1183-1 A |
| Tensile strength | - | 8.0 N/mm ² | ISO 37 type 1 |
| Elongation at break | - | 500 % | ISO 37 type 1 |
| Tear strength | - | 30 N/mm | ASTM D 624 B |
| Volume resistivity | - | 5 x 10 ¹⁵ Ohmcm | IEC 62631-3-1 |
| Permittivity | 50 Hz | 2.7 | IEC 62631-2-1 |
| Dissipation factor | 50 Hz | 3 x 10 ⁻³ | IEC 62631-2-1 |
| Dielectric strength (1-mm-sheet) | - | 28 kV/mm | IEC 60243-1 |
| Tracking resistance | - | 1A 4.5 | IEC 60587 |
| Arc resistance | - | > 300 s | IEC 61621 |
| Flammability | - | FV 0 | IEC 60695-11-10 |

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Applications

- Cable Accessories

Application details

- cable accessories
- insulators
- outdoor and indoor use

Processing

Components A and B are delivered ready to use in drums of 20 and 200 litres capacity. They can be pumped by means of standard metering equipment from these drums and mixing in a static mixer straight into the heated mold. The mixing ratio is 1 : 1.

The material fits very well all requirements for manufacturing of large articles with special dosing and metering equipment because of its low viscosity.

At room temperature, mixture of A and B components have a pot life of at least three days.

For detailed information, refer to brochures on www.wacker.com.

Packaging and storage

Storage

The 'Best use before end' date of each batch is shown on the product label.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

QR Code POWERSIL® 735 LIGHTGRAY A/B



For technical, quality or product safety questions, please contact:

Wacker Chemie AG, Hanns-Seidel-Platz 4, 81737 Munich, Germany
productinformation@wacker.com, www.wacker.com

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