POWERSIL® XLR® 630 A/B

Liquid Silicone Rubber (LSR)

POWERSIL® XLR® 630 A/B is an especially low viscous, two-component silicone compound with excellent processing properties. The vulcanized rubber is noted for the good mechanical properties as well as for the excellent dielectrical behaviour.

Properties

- ready-to-use, two-component system
- extreme low viscosity as a liquid rubber
- excellent processing with suitable mixing and dosing equipment (low pressure mold filling)
- excellent dielectric properties
- best suitable for outdoor applications (UV & weathering resistance, excellent hydrophobic properties)

Specific features

- Product Rheology: Low viscosity
- Resistance: Resistant to tracking and erosion
- Specific Features: Low viscosity
- Specific Features: Resistant to tracking and erosion

Technical data

Properties Uncured

Property	Condition	Value	Method
Viscosity, dynamic of Component A (10 s^{-1})	-	14000 mPa·s	DIN EN ISO 3219
Viscosity, dynamic of Component B (10 s^{-1})	-	12000 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.

Properties Catalyzed A+B

Property	Condition	Value	Method
Viscosity, dynamic (10 s^{-1})	-	13000 mPa·s	DIN EN ISO 3219
Kick-off temperature	-	105 °C	-
Pot Life	23 °C	2 d	-

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Properties Cured

Cure conditions: 5 min / 165 °C in press

Property	Condition	Value	Method
Appearance	-	light gray	-
Hardness Shore A	-	35	DIN ISO 48-4
Density	-	1.14 g/cm^3	DIN EN ISO 1183-1 A
Tensile strength	-	7.0 N/mm^2	ISO 37 type 1
Elongation at break	-	450 %	ISO 37 type 1
Tear strength	-	25 N/mm	ASTM D 624 B
Volume resistivity	-	10^{15} Ohmcm	IEC 62631-3-1
Permittivity	50 Hz	2.9	IEC 62631-2-1
Dissipation factor	50 Hz	2 x 10^{-4}	IEC 62631-2-1
Dielectric strength (1-mm-sheet)	-	23 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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All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Applications

- Arresters
- Cable Accessories
- Insulators

Application details

POWERSIL® XLR® 630 A/B is the right choice for economical production of large articles like hollow core insulators with suitable mixing and dosing equipment. Because of its extreme low viscosity the use of a high-cost injection moulding equipment is not necessary, but of course possible if wanted.

Due to the outstanding electrical properties POWERSIL® XLR® 630 A/B is an insulating material for indoor as well as for outdoor 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 extreme low viscosity and resulting high volumetric flow rate ensure consistent, void-free production at constant mould temperature, also of large-volume moulded parts. The very low inner mould pressure minimizes the danger of deformation of FRP tubes or other inserts.
At room temperature, mixtures of A and B components have a pot life of at least two 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.
Especially in warm climate, storage of the material in an air-conditioned warehouse with cool (below 25 °C) and dry conditions is mandatory.
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® XLR® 630 A/B

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

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