
WEVOSIL 22006 FL

Solvent-free, addition-curing two-component silicone-based casting resin system

Attributes

The resulting soft-elastic molded material is characterized by good low-temperature flexibility and excellent behavior in the temperature shock test. Recommended temperature range: -60 °C to +180 °C.

The resin is processed together with WEVOSIL 22006 FL B.

Application

- Pressure-sensitive electrical components
- complete assemblies in SMD technology
- thermally conductive adhesive and potting as well as molded parts made of this material

Standards

- Temperature application range -60 °C - +180 °C
- Isolation class H
- RTI 180 °C
- UL 94 V0 (4 mm)

Delivery forms

10 kg and 30 kg containers

Color

WEVOSIL 22006 FL A: Nature

WEVOSIL 22006 FL B: Black

Storage

Polymer (A-component) and crosslinker (B-component) must be stored dry and at a temperature of 5 °C to 30 °C and not in the open air. The containers should be stored upright and not directly on the cold floor (floor temperature not below 5 °C). WEVOSIL 22006 FL has a shelf life of 6 months after production.

At temperatures above 25 °C, the settling of the fillers contained in the casting compound is accelerated. The potting compound is then more difficult to homogenize.

Hardening

- Pot life: 90 - 120 minutes at room temperature, depending on layer thickness and casting volume.
- Curing time: 6 hours at room temperature, 1 hour at 100°C

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- Final chemical curing: several days at room temperature

Curing notes:

- Excessive humidity has a damaging effect on the uncured compound. If necessary, curing should take place in an air-conditioned room, a container with low humidity or in an oven.
- Curing at an elevated temperature (50 - 100°C) accelerates the curing reaction and can influence the adhesion of the potting compound to the walls of the component.
- The WEVOSIL 22006 FL casting compound reaches its final hardness after a few days at room temperature.
- After approx. 6 hours curing at room temperature (or 1 h @ 100 °C) approx. 90 - 95 % of the Curing takes place. To achieve the final hardness, post-curing can then be carried out for 2 hours at 165 - 180 °C. However, this last step is not absolutely necessary. After a few days, the casting compound reaches its final hardness even at room temperature (depending on the system).
- Electrical tests of the component quality can usually be carried out after the first curing (6 hours at room temperature or 1 h @ 100 °C).

Protection

Our products are intended solely for industrial use. For further details, please refer to the safety data sheet.

Processing

Our processing instructions please find [here](#).

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| General | Unit of measure | Condition | Value | Test method |
|--------------|-----------------|-----------|---------|-------------|
| Mixing ratio | Gew-% | | 100:100 | |
| Pot life | min | 25 °C | 90-120 | |
| Curing time | h | 25 °C | 6 | |
| Curing time | h | 100 °C | 1 | |

| Mechanical | Unit of measure | Condition | Value | Test method |
|---------------------|-------------------|-------------------------------|-----------|---------------------|
| Density | g/cm ³ | WEVOSIL 22006 FL A | 1.36-1.40 | |
| Density | g/cm ³ | WEVOSIL 22006 FL B | 1.36-1.40 | |
| Viscosity | mPas | WEVOSIL 22006 FL B / 22 °C | 2000-2800 | |
| Viscosity | mPas | WEVOSIL 22006 FL A / 22 °C | 2000-2800 | |
| Mixture viscosity | | 22 °C | 2000-2800 | |
| Hardness | Shore A | | 47-55 | Acc. to ISO 48-4 |
| Water absorption | % | 30 d, RT | <0.2 | |
| Elongation at break | % | | 90 | ISO 527-2 |

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| Thermal | Unit of measure | Condition | Value | Test method |
|------------------------------|-----------------|-----------|-------|------------------|
| Thermal class | | | H | DIN EN 60085 |
| Glass transition temperature | °C | | -50 | TMA |
| Thermal conductivity | W/m*K | | 0.5 | ISO 22007-2:2008 |

| Electrical | Unit of measure | Condition | Value | Test method |
|--|-----------------|-----------|-------------------|-----------------------|
| Dielectric strength | kV/mm | | 33 | DIN EN 60243 |
| Dielectric constant ε at 50 Hz, 23 °C | | | 3.8 | DIN EN 60250 |
| Dielectric constant; at 1 kHz, 23 °C | | | 2.7 | DIN EN 60250 |
| Dielectric constant ε at 1 MHz, 23 °C | | | 2.4 | DIN EN 60250 |
| Volume resistance specific at 23 °C, 50 % r.h. | Ωxcm | | >10 ¹¹ | DIN EN 62631-3-1:2016 |
| Surface resistivity at 23°C and 50 % r.h. | Ω | | >10 ¹⁴ | DIN EN 62631-3-2:2016 |

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