
WEVOSIL 20201/60 Gel

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

Attributes

The resulting gel-like molding material is characterized by good low-temperature flexibility and excellent behavior in the temperature shock test. Recommended temperature range: -60 °C to +200 °C.

The resin is processed together with WEVOSIL 20201/60 B.

Application

- Pressure-sensitive electrical components
- complete assemblies in SMD technology

Standards

- Temperature application range -60 °C - +200 °C
- Isolation class H
- RTI 180 °C

Delivery forms

10 kg and 25 kg containers and 200 L barrel

Color

WEVOSIL 20201/60 A: Natural

WEVOSIL 20201/60 B: Natural

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 20201/60 Gel 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: 50-60 minutes at room temperature, depending on layer thickness and casting volume.
- Curing time: 8 hours at room temperature, 1 hour at 100 °C

The information on this data sheet is based on the information provided by our supplier. It does not represent any specification or agreements regarding conditions or properties. The indicated values are standard values. Deviations from those values due to production and application cannot be excluded. The information on this data sheet is addressed to experts who use it at their own discretion and at their own risk. We do not guarantee results, or accept liability for the indicated specifications or for results obtained based on the specifications. Please contact us for more detailed information. Non-toxic and toxic substances are listed on the safety data sheet.
Updated 05/25



-
- 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 20201/60 casting compound reaches its final hardness after a few days at room temperature..
- After approx. 8 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 (8 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](#).

The information on this data sheet is based on the information provided by our supplier. It does not represent any specification or agreements regarding conditions or properties. The indicated values are standard values. Deviations from those values due to production and application cannot be excluded. The information on this data sheet is addressed to experts who use it at their own discretion and at their own risk. We do not guarantee results, or accept liability for the indicated specifications or for results obtained based on the specifications. Please contact us for more detailed information. Non-toxic and toxic substances are listed on the safety data sheet.

Updated 05/25



General	Unit of measure	Condition	Value	Test method
Mixing ratio	Gew-%		100:100	
Pot life	min	25 °C	50-60	
Curing time	h	25 °C	8	
Curing time	h	100 °C	1	

Mechanical	Unit of measure	Condition	Value	Test method
Density	g/cm ³	WEVOSIL 20201/60 A	0.96-1.00	
Density	g/cm ³	WEVOSIL 20201/60 B	0.96-1.00	
Viscosity	mPas	WEVOSIL 20201/60 B / 22 °C	300-700	
Viscosity	mPas	WEVOSIL 20201/60 A / 22 °C	300-700	
Mixture viscosity		22 °C	300-700	

Thermal	Unit of measure	Condition	Value	Test method
Thermal class			H	DIN EN 60085

The information on this data sheet is based on the information provided by our supplier. It does not represent any specification or agreements regarding conditions or properties. The indicated values are standard values. Deviations from those values due to production and application cannot be excluded. The information on this data sheet is addressed to experts who use it at their own discretion and at their own risk. We do not guarantee results, or accept liability for the indicated specifications or for results obtained based on the specifications. Please contact us for more detailed information. Non-toxic and toxic substances are listed on the safety data sheet.
Updated 05/25



Thermal	Unit of measure	Condition	Value	Test method
Glass transition temperature	°C		-110	TMA
Thermal conductivity	W/m*K		0.2	ISO 22007-2:2008

Electrical	Unit of measure	Condition	Value	Test method
Dielectric strength	kV/mm		23	DIN EN 60243
Dielectric constant; at 1 kHz, 23 °C			2.7	DIN EN 60250
Volume resistance specific at 23 °C, 50 % r.h.	Ωxcm		$>10^{14}$	DIN EN 62631-3-1:2016

The information on this data sheet is based on the information provided by our supplier. It does not represent any specification or agreements regarding conditions or properties. The indicated values are standard values. Deviations from those values due to production and application cannot be excluded. The information on this data sheet is addressed to experts who use it at their own discretion and at their own risk. We do not guarantee results, or accept liability for the indicated specifications or for results obtained based on the specifications. Please contact us for more detailed information. Non-toxic and toxic substances are listed on the safety data sheet.
Updated 05/25

