

- Very clear
- Very liquid
- Gel-like after hardening
- Self-venting
- Suitable for potting

### Silicone Addition Gel 840 Water Clear

A gel for potting of electronic and optical devices.

#### Description

The silicone gel 840 is a 2-component (Platinum) Poly-addition silicone which cures at room temperature into a gel. These silicones exhibit, after mixing, good fluidity and turn crystal clear. This silicone gel will, over the course of time and at temperatures over 30 °C, get a very faint yellowish glow.

After the silicones have turned into a gel you can still puncture it to reach the measuring pins of the electronic components. If you work carefully the gel will close again sufficiently to shut out moisture.

The very good fluidity provides a good self-deaerating property.

#### Technical data

Mixing ratio (weight)	[A: B]	100: 100
Pot life / processing time @ 22 ° C	[Minutes]	80
Functional crosslinking after @ 20°C	[Hours]	24
Curing time (@ 20 ° C)	[Days]	2
Viscosity @ 22 ° C	[CST]	125
Color		transparent clear
Penetration	[mm x 10 <sup>-1</sup> ]	60
Dielectric value	[KV / mm]	15
volume resistivity	[Ohm.cm]	3X10 <sup>15</sup>
Density	[G / cm3]	0.94

Note: Pot life / de-mould time is highly dependent on temperature! At a higher temperature, the processing time and de-mould time will be shorter.

#### Processing

The silicone gel 840 can be easily mixed by hand or by machine. Blend the A and B component carefully and in the indicated ratio (100 parts A and B in 100 parts by weight) together. Process the mixture within the pot life and de-mould only after it has cured complete. Alternatively, you can speed up the curing process by placing the whole mould in an oven. Please note that speeding up the process will leave more air bubbles trapped within the silicone casting.

#### Extra information

Trapping air bubbles can be prevented best by placing the silicone in a vacuum chamber immediately after mixing. To prevent air bubbles, stir the A and B component well but slowly without. The best way is to create a "figure 8" motion.

This silicone gel will get a very faint yellowish haze at higher temperatures. For most potting and encapsulating purposes though this will not be a problem.

**Please note:** This is an addition curing silicone. This type of silicones may experience cure inhibition when coming into contact with sulfur, nitrogen, amino groups and metal salts. If you are not certain that the products you use (including gloves, spatulas and cups) contain these ingredients, please do a little test first! These components are often found in many latex gloves, some platicines, glues, laquers, condensation curing silicones, silicone caulk, natural rubbers and 3D printing materials (mainly stereolithography). To use this gel on a poisoning surface please use polyvinyl alcohol as a protective layer in between.

#### Packing

The products are packaged in sets of equal amounts of A and B component. The components cannot be ordered separately.

For larger packages we ask you to contact us through the site.

#### Durability

Provided that the silicone is in a sealed container and stored cool and frost-free, the shelf life is at least 1 year.

#### Safety

If you use silicone frequently we advise the use of gloves and to work in a properly ventilated area. For safety information see the safety data sheet.