Characteristics

- Low shrinkage of <0.1%
- Very fluid and self deaerating
- Crystal clear
- Suitable for potting
- Refr. Index @ 25 ° C 1.406
- Very low hardness

Silicone Addition Clear 0 Supersoft Set

Silicone Clear 0 Supersoft Set is a two component set addition curing silicone that will make a very clear very soft silicone rubber.

Description

The Silicones Clear 0 Supersoft Set is a two component Poly-addition-silicone which cures at room temperature. After mixture, the Silicones have good liquid qualities and are crystal clear. In time the hardened silicones will become a little yellowish, but will not lose its transparency.

Due the low shrinkage and clear properties this silicones are ideal for encapsulating or potting of electronics and optical elements. The silicone will result in a little tacky, stiff but soft gel.

Technical data

Mixing ratio (weight)		[A: B]		1: 1
Pot Life @ 23 ° C		[Min]		60-100
De=mould time@ 23 ° C		[Hours]		<17
Viscosity @ 23 ° C		[cSt]		1500-2500
Color				Clear
Hardness		[Shore A]		0
Density		[g / cm^3]		1.03
Tensil strength		[N /mm^2]		1

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

Processing

The Silicone A and B component can easily be mixed by hand or by machine. Mix the A and B component carefully and in the indicated ratio (100 parts A and 100 parts B by weight). Process the mixture within the pot life and demould only after it is cured complete. Alternatively, you can speed up the curing process by placing the whole mould in an oven. Please note that air bubbles will then have less time to escape the casting.

Extra information

Trapping of air bubbles can be prevented best by placing the silicone under vacuum immediately after mixing. To prevent air bubbles, stir the A and B component well but slowly without stirring in air. We advise to use a figur of 8 motion. If you want to reduce the Shore (hardness), you can add silicone oil from the shop. Please note that oil does not bind to the silicone network and may over time bleed from the silicone.
If you do not want to pour the silicone spatula but you can add Silicone Thixo A (note: not Silicone Thixo C !!). You can also add fumed silica. You can silicone intense colors with silicon dye.
The silicon might obtain a very slight yellow hue when used at elevated temperatures (>80 ° C).

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, lacquers, condensation curing silicones, silicone caulk, natural rubbers and 3D printing materials (mainly stereolithography).

Packing

The products are packaged in sets of 1kg, 2kg, 9 Kg, 40 Kg and 400 Kg. The components cannot be ordered separately.For larger packages we ask you to contact us through the site.

Durability

Provided that the silicone in sealed packaging, stored cool and frost-free, the shelf life is tenminste1 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.