Silicones Addition Transparent 25 Normal

These silicones are often used in prototyping because the original is visible in the silicone mold. This makes it possible to cut the original out off the mould.

Characteristics

- Transparent
- Shore (A) 25
- Fluid (self-bleeding)
- Good resistance to acid / aggressive substances.
- Curing time adjustable
- Strong
- Low shrinkage (<0.1%)

Description

The Silicones A Transparent are a very versatile 2-component (Platinum) Poly-addition pourable silicone which cures at room temperature. These silicones are quite liquid and the results provide a very high tensile strength. The transparent silicone are suitable for dies in which it is important that the molded-object remains visible. In this way, one can make a mold very accurately and cut to open the mould in the right place. The silicones can also be used for food related materials, skin contact projects and even for the making of stamps or podological items.

Technical data

		B Normal	Transparent 25 A with B Normal
Mixing ratio (weight)	[A: B]		10: 1
viscosity	[mPa s]	100	7.000
Pot Life @ 20 ° C	[Min]	Long	60
De-mould time @ 20ºC	[Hours]	Long	6
Tensile strength	[N / mm^2]		7
Tear Strength	[N / mm]		15
Color			Transparent
Hardness	[Shore A]		25

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 figure of 8 motion.

You can change the hardness (Shore) Readily by mixing the A components of the Shore 15 set and the Shore 40 set. If you take for example, the same amounts of Silicone addition Transparent 15 A and Silicone addition Transparent 40 A you will get a hardness of about Shore A 27.5.

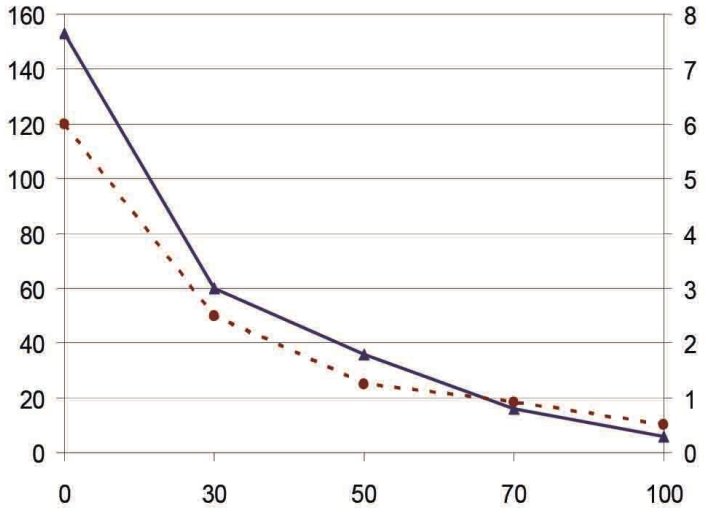
The component B FAST provides a curing time of 15 minutes. The component B NORMAL gives a curing time of 6 hours. These two can be combined so that you can determine a curing time for yourself. For mixing ratios of the B component, consult the chart in the information sheet.

Note: The percentage of the total B component must always be 10% of the total weight of the A component.

Please note: This is an addition curing silicone. This type of silicones may experience cure inhibition when coming into contact with sulphur, 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 plasticines, glues, lacquers, condensation curing silicones, silicone caulk, natural rubbers and 3D printing materials (mainly stereolithography). If you want to use these Silicones on these surfaces please use polyvinyl alcohol to seal the surface first.

Processing time in minutes

Demoulding time in hours



Proportion of Fast B components in the total B components.
The red dot line is the demolding time.
The blue line is the processing time..

Packing
A component comes in 1 Kg 5 Kg and 20 Kg. The B component in 100 gram, 500 gram and 2000 gram respectively.
The components can not 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 silicones frequently we advice the use of gloves and to work in a properly ventilated area. For safety information see the safety data sheet.