

- Colour: Red-brown
- Easy to mix
- Good resistance to casting resins
- Low shrinkage (<0.1%)

## Silicone Addition M4601

These silicones are ideal for prototyping

### Description

Elastosil M 4601 is a two component addition curing silicone which vulcanises at room temperature. The end result is a reddish synthetic rubber with a Shore A of around 28. The good resistance to casting resins (in particular polyurethane), and low shrinkage, make this silicone very suitable for prototyping. This material is easy to process manually.

### Technical data

Mixing ratio (weight)	[A: B]	90:10
Pot Life @ 20 ° C	[Min]	90
Ontmaltijd @ 20°C	[Hours]	12
Full strength after @ 23 ° C	[Days]	1
Hardness	[Shore A]	28
tensile strength	[Kg / cm <sup>2</sup> ]	65
tear Strength	[Kg / cm]	30
Elongation at tear	[%]	700
Mixture viscosity @ 23 ° C	[MPa s]	20,000

Please note that the data values are based on room temperature (20-25 °C). Colder environments / material can slow the curing or even stop it completely. A minimum temperature (ambient and material) of 18 ° C is recommended. Pot life and curing time are greatly reduced at higher temperatures (40 °C and up).

### processing

Mix the material (the A and B components together) thoroughly for at least 45 seconds and make sure that you include the sides of the mixing cup. Always mix using a figure of 8 motion so as to prevent air in the mixture.

Optionally, you can pour the mixed material into a second container to be sure no unmixed parts are present.

If you wish to de-air the product you can put it in a vacuum chamber. The silicone volume may rise up to 5 times the original volume in a vacuum chamber, so be sure to use a large enough cup or de-air in more than 1 go. Please note: In case of excessive degassing the product can be adversely affected.

If you cannot de-air the product give the silicone mixture a few minutes to de- air on its own preferably at 18 °C so pot life is extended. Pour the material into the mould with a thin jet.

### Packing

The products are packaged as 0.9 kg of A-component and 100 grams of B-component. For larger packages we ask you to contact us through the site.

### Durability

Provided that the silicone is stored in closed containers at a temperature of 10-25 ° C, the shelf life is at least 1 year. Please take care to stir both components in their container before take material out to mix.

### Safety

Although no negative effects are know we advise the use of safety gloves if you process silicones frequently or in large amounts. For safety instructions, see always the safety data sheet.