

GLS 50 + T30

Silicon liquid rubber for casting.

Liquid rubber for casting with a cold cure by poly-condensation.

It can reproduce even the finest detail, as it can penetrate everywhere, so it is suitable to make mono-valve moulds of little and detailed objects, such as figurines, statuettes etc.

Pot-life is rather long : 1 hour, while the complete vulcanization takes 18 -20 hours. To accelerate this process, put the blend in a warm place (30 C°), but remember that a too fast reaction does not allow the escape of air bubbles. Before using, add to the rubber 5% of T 30 catalyst. Always batch the two components by weight, if an accuracy scale is not available, use a syringe and batch by volume, but only for the catalyst: 1cc = 1 gr. For the rubber this is not possible, because its specific weight is 1,2.

Silicon rubbers are non-stick materials, so a mould release agent is not required.

General hints:

Put the two components in a container, and blend them carefully using a long, narrow spittle, scraping the bottom and all the container, to obtain a homogeneous blend, and slowly, to avoid air bubbles. Wait ten minutes, then cast the rubber upon the object, already fixed inside a container.

Cast the rubber spacing out the layers, gradually, up to cover the object.

To maintain the mould in the best conditions for a long time, follow these suggestions:

Every 20 castings, put it in the oven, at 100C° for 1 hour, to allow the evaporation of solvents and other matters.

Besides, periodically treat it with silicone oil, to avoid the rubber to dry up.

After use, the rests of vulcanized rubber easily detaches from the container and tools used during the work.

Components properties:

| | COMP. A | COMP. B |
|-----------------|----------------|-------------|
| COLOUR | Beige | Transparent |
| APPEARANCE | Viscous liquid | Liquid |
| SPECIFIC WEIGHT | 1,26 | 0,98 |
| VISCOSITY | >< 10.000 | >< 100 |

Ratio A/B

100gr A / 5gr B

Blend properties:

| | |
|--------------------|------------|
| COLOUR | Beige |
| POT – LIFE (23C°) | 60 minutes |
| SEEMING HARDENING | 24 hours |
| COMPLETE HARDENING | 72 hours |

Properties after vulcanization:

| | |
|---|-----------|
| Hardness Shore A, 24 hours (DIN 53505) | 18 points |
| Breaking stress (DIN 53504) | > 7 Mpa |
| Tear strength (DIN 53515) | 500% |
| Linear shrinking | < 0,5% |

Benefits:

Low linear shrinking

No release of toxic matter before, during, and after use

Good mechanical properties

Storage:

Between -5 /+30 C°, in original packs, 12 months.



Ideas and creative solutions

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