

INFORMATION MATERIAL | DOWNLOADS

MOLDMAKING, PROTOTYPE MOLDING AND PAD PRINTING WITH ELASTOSIL® SILICONE RUBBER

ELASTOSIL® silicone rubber is the moldmaking material of choice when it comes to the accurate and flexible reproduction of details.



ELASTOSIL® RT Silicone Rubber for Pad Printing

WACKER offers a high-quality product range of ELASTOSIL® RT silicone rubber grades for pad printing. Antistatic variants as well as auxiliary products precisely adapted to your needs round off our portfolio of high-performance products.



www.wacker.com/h/medias/6884E-EN.pdf

ELASTOSIL® M Silicone Rubber for Rapid Prototyping

The properties of pourable, addition-curing ELASTOSIL® M silicone rubber have been specially tailored to the needs of vacuum casting for rapid prototyping and small-series production.



www.wacker.com/h/medias/7869-EN.pdf

WACKER CREATING TOMORROW'S SOLUTIONS

MOLDMAKING | RAPID PROTOTYPING

VACUUM CASTING WITH SILICONE MOLDS

Preprocessing can be done to rapidly change the form of silicone masters in the face of changing customer requirements. Rapid prototyping offers a way to diversify the production of prototypes and is therefore key to meeting customer requirements across the spectrum of initial design or design.

On heating the term "rapid prototyping" soon prevails and with those of 3D printing. There are other modern methods of producing prototypes or small series that provide distinct benefits. Depending on the customer case these can consist in the selection of 3D printing, injection casting with silicone resin, hot-chamber casting or direct addition design of granular masses in high-precision molding units. These methods have made it possible, reliable and accurate to produce the prototypes, master parts and small series over many years.

Low shrinkage | **High strength** | **High accuracy** | **High precision** | **Production speed**

Low shrinkage: There is no need for expensive equipment, as a direct design can be made directly. Custom customer data can be used right from the start for the mold design. As a result of thermal and mechanical expansion of production parts of 10 to 20 percent and even additional expansion on the basis of filling with specific materials.

High strength: With a low weight, it is easy to implement threaded inserts, magnets or other functional parts. And even that, but the casting can be done with a wide range of resin thicknesses, depending on the customer case in high strength. (Stress is both above and below 10 MPa.) It is possible to make high-temperature-resistant, flexible, and oil-resistant parts quickly and reliably.

High accuracy: The design is made directly from the customer's data. The accuracy is high. The casting is done in a vacuum, which ensures that the material is free of air bubbles and that the surface is smooth and free of defects.

High precision: The design is made directly from the customer's data. The accuracy is high. The casting is done in a vacuum, which ensures that the material is free of air bubbles and that the surface is smooth and free of defects.

Production speed: The design is made directly from the customer's data. The accuracy is high. The casting is done in a vacuum, which ensures that the material is free of air bubbles and that the surface is smooth and free of defects.

Production with special properties: The design is made directly from the customer's data. The accuracy is high. The casting is done in a vacuum, which ensures that the material is free of air bubbles and that the surface is smooth and free of defects.

Production with high functionality: The design is made directly from the customer's data. The accuracy is high. The casting is done in a vacuum, which ensures that the material is free of air bubbles and that the surface is smooth and free of defects.

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ELASTOSIL® FX Silicone Rubber for Special Effects

Addition-curing ELASTOSIL® FX silicone rubber grades and additives enable the creation of realistic, impressive effects on the skin and in masks, prosthetics and decorative uses. Film, theater, cosplay, prosthetics and medical training aids are possible areas of application.



www.wacker.com/h/medias/7702-EN.pdf



More detailed information on specific applications can also be found on our website:



<https://www.wacker.com/cms/en-de/products/applications/moldmaking/moldmaking-overview.html>



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