

ELASTOSIL® P – SOFT SILICONE GELS

Perfect Solutions for External Mammary Prostheses

One of the most frequent cancers among women is breast cancer, which impacts 2.1 million women per year. Many have to undergo a mastectomy, in which the complete breast or large amounts of breast tissue are removed.

Women who decide against surgical reconstruction of the breast, due to the high risk or costs often choose an external silicone mammary prosthesis as an alternative solution.

Our WACKER ELASTOSIL® P products provide a perfect touch and feel to those prostheses and thus lead to a natural appearance and a comfortable wearing experience.

Non Invasive Recovery

Many women want to restore their natural appearance after breast cancer surgery. Some feel that breast reconstruction enhances their quality of life and helps them to feel more confident overall after a mastectomy.

External mammary prostheses filled with WACKER ELASTOSIL® P silicone gels are the perfect choice for these women. They can be formed in many different shapes and sizes. As the silicone gel is so soft and mobile, a very good imitation of the female breast tissue can be achieved and the women can recover their natural silhouette. In addition silicones perfectly adapt to the skin temperature and thus increase the convenience of the mammary prosthesis. WACKER ELASTOSIL® P silicone gels can be used for full or partial mammary prostheses.

Light Weight Increases Comfort

External silicone mammary prostheses are required to imitate the former breast volume and weight perfectly. In the case of large breast volumes a normal silicone mammary prosthesis may be very heavy and strain the wearer's shoulders and back. Special WACKER ELASTOSIL® P lightweight gels can reduce the weight of the prosthesis by up to 35%. This makes ELASTOSIL® P lightweight gels the preferred filling materials for large size mammary prostheses or prostheses that can enhance comfort during sports activities.

Benefits of ELASTOSIL® P

- Easy metering and mixing
- Low viscosity
- Good adhesion to polyurethane films
- Lightweight materials available



Penetration Test of ELASTOSIL® P grades

Table 1: ELASTOSIL® P Portfolio Overview

Product	Viscosity A [mPa s]	Viscosity B [mPa s]	Penetration [1/10mm]	Gel time 70 °C [min]	Density [g/cm ³]	Pot life 23 °C
ELASTOSIL® P 7616-160	350	1,400	160	22	0.98	> 6
ELASTOSIL® P 7619 (ratio 2:1)	100	1,250	200	22	1.1	> 6
ELASTOSIL® P 7630	8,000	8,000	200	3	0.62	0.5

For standard specifications and technical parameters, refer to the technical data sheet.



Gentle Attachment

External mammary prostheses can be worn in a special bra or they can be designed for direct attachment to the skin. For gentle and secure adhesion to the skin, our WACKER SILPURAN® soft silicone adhesives are the perfect complement to mammary prostheses. They can be easily applied to the breast prosthesis, are cleanable, repositionable and offer very good skin compatibility. The atraumatic removal properties of our SILPURAN® silicone adhesive ensure a comfortable wear even on sensitized skin.

Easy Processing

ELASTOSIL® P grades are addition-curing silicone rubber materials (RTV-2). The two components (A+B) are mixed together and cure to a comfortably soft gel. An external mammary prosthesis usually consists of a thin shell of, e.g., polyurethane (a). The use of a thermoplastic shell allows individual sizes (b) to be formed. The shell is completely filled with the ELASTOSIL® P silicones (c) and finally the shape of the prosthesis is set using a negative mold (d). The curing of the silicone gel starts at room temperature but can be accelerated by elevated temperatures (80–120 °C) (e). The prosthesis is then demolded and can be further processed and prepared for packaging.

Table 2: SILPURAN® Adhesives Portfolio for Skin Attachment

Product	Viscosity A [mPa s]	Viscosity B [mPa s]	Penetration* [1/10mm]	Peel** [N/2,5cm]	Tack** [N]	Pot life 23°C [min]
SILPURAN® 2130	1,100	1,000	220	1.8	55	74
SILPURAN® 2112	11,600	11,500	225	2.6	55	76
SILPURAN® 2100	34,000	35,500	205	2.7	54	73
SILPURAN® 2117	33,000	13,000	210	3.0	63	40
SILPURAN® 2114	12,000	10,000	200	3.5	66	70
SILPURAN® 2122	3,200	2,700	180	5.5	59	60

For standard specifications and technical parameters, refer to the technical data sheet. *hollow cone 62.5 g, 60 sec. ** On stainless steel

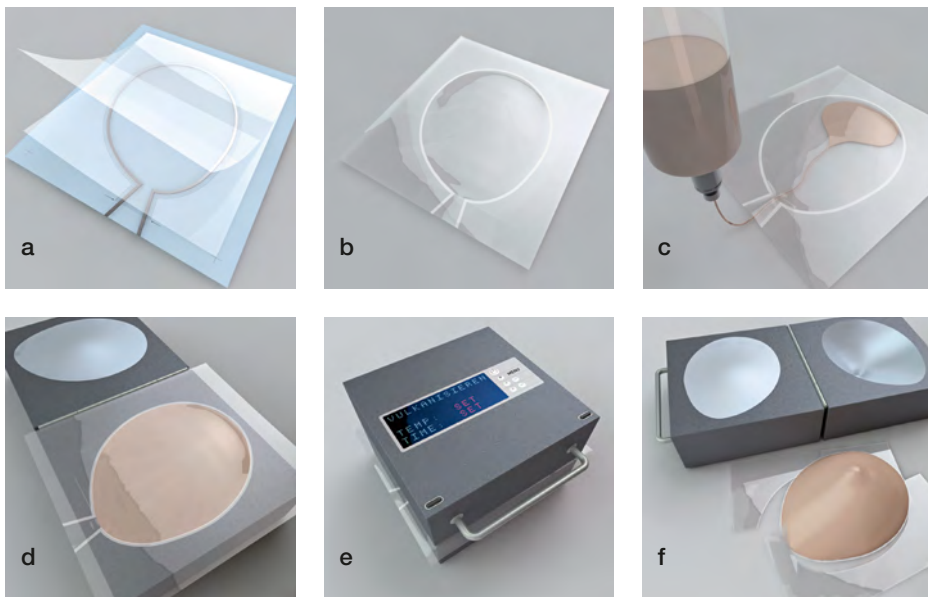


Figure 1: ELASTOSIL® P in external mammary prosthesis production

Health. Care. WACKER.



We care. And that's why we keep researching and developing medical solutions that improve quality of life. In applications such as medical devices, orthopedics, prosthetics and medical silicone adhesives you will feel the difference with our innovative silicones. Our experienced WACKER team knows how to find the right solution for the challenge of your specific product.

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Wacker Chemie AG, Hanns-Seidel-Platz 4, 81737 Munich, Germany
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