

SILICONE FILMS | ELASTOSIL® Film 624

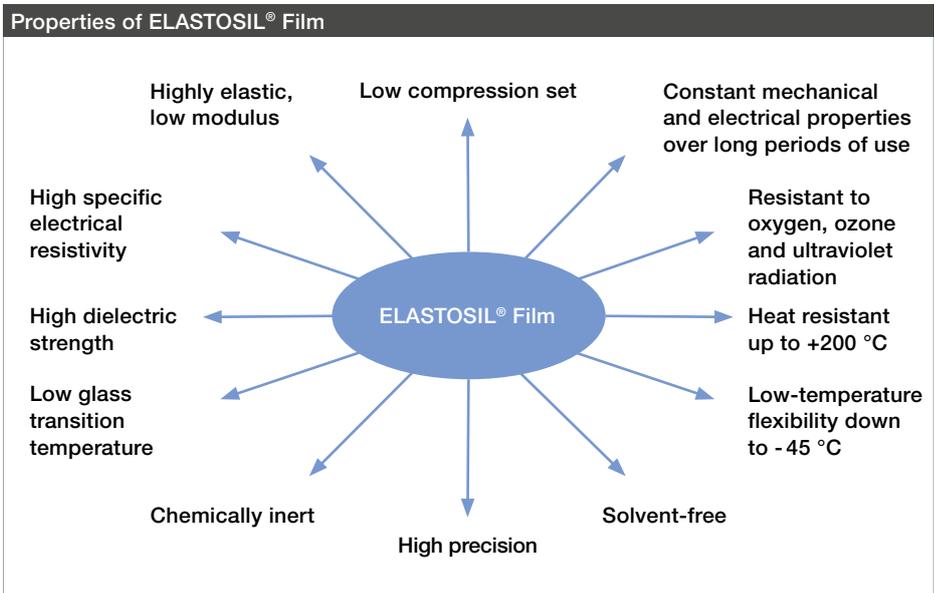
ELASTOSIL® Film 624

IDEAL FOR FUEL CELL APPLICATIONS

Applications for the ELASTOSIL® Film range of thin, 100% silicone films have now been expanded to include fuel cells. New ELASTOSIL® Film 624 greatly extends the reach of high-tech silicone technology and offers pioneering, key advantages.

Thin, High-Precision Silicone Films

Produced from addition-curing silicone rubber grades in a patented process, ELASTOSIL® Film 624 products from WACKER are silicone roll-stock films available in thicknesses as low as 150 micrometers. The 100% silicone films are manufactured under cleanroom conditions, which yield homogeneous, flawless films of uniform thickness. ELASTOSIL® Film 624 products also display all the typical characteristics of silicone elastomers, including very good electrical insulation properties. This combination is key to unlocking technical applications, especially since - uniquely for this kind of material - industrial-scale production is possible. ELASTOSIL® Film can be die-cut or



laser-cut to the desired shape. It can be adhesively bonded or be supplied already coated with adhesive.

ELASTOSIL® Film 624 Enables New Stack Designs

New ELASTOSIL® Film 624 is made

from ELASTOSIL® RT 624, an ideal raw material for fuel cell applications whose unique chemical stability gives it the high resistance needed for this environment. Thanks to its high precision and low thickness, ELASTOSIL® Film 624 can be used to realize compact fuel cell designs.

WACKER: Your Development Partner

WACKER is one of the world's largest silicone producers and most research-driven chemical companies. The Group's portfolio currently contains over 3,000 silicone products. WACKER can now produce the innovative silicone films of its ELASTOSIL® Film range on an industrial scale. We would be happy to give you the support you need for implementing your application concepts at any of our technical centers worldwide. Contact us at nexipal@wacker.com



ELASTOSIL® Film 624

ELASTOSIL® Film 624 is ideal for fuel cell applications. It is supplied in thicknesses of between 150 µm and 500 µm. Colored versions are available upon request.

ELASTOSIL® Film 2030

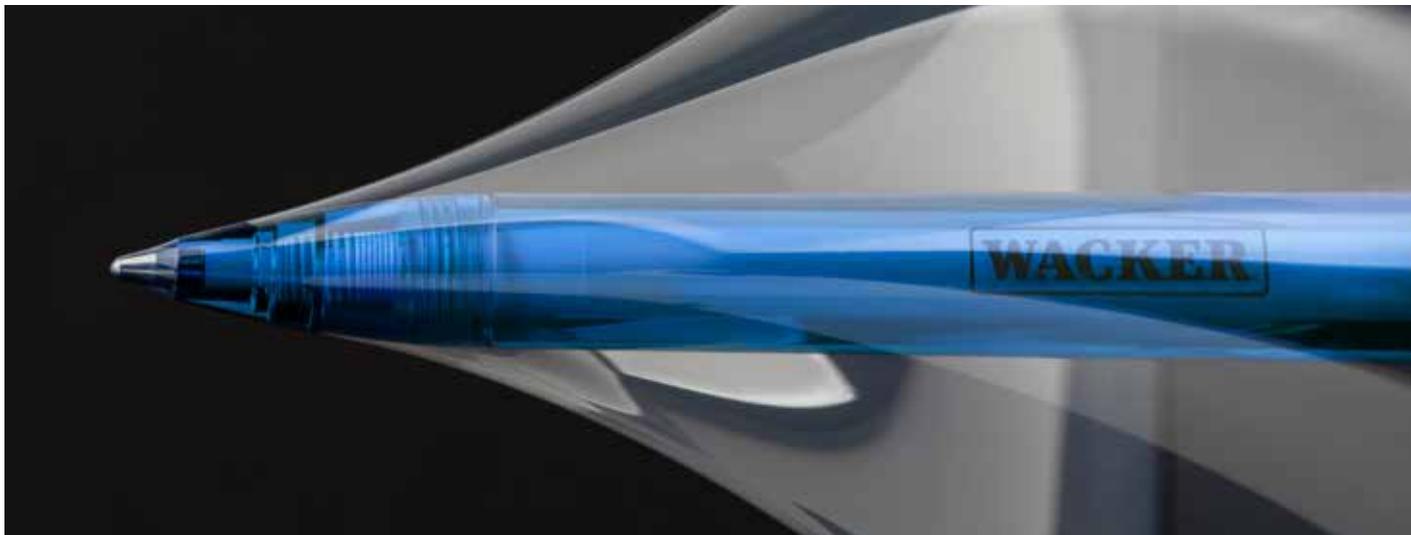
The standard product, ELASTOSIL® Film 2030, is designed for low thicknesses of 20 µm to 400 µm. It can be used for sealing applications, as insulation material, and as packaging, membranes or protective films.

All grades are delivered on a carrier substrate on 250-mm or 500-mm rolls. Customized versions upon request.

Properties Cured – ELASTOSIL® Film 624			
Property	Condition	Value	Method
Density in water	23 °C	1.07 g/cm ³	DIN EN ISO 1183-1-A
Hardness Shore A		40	DIN ISO 48-4
Tensile strength		5 N/mm ²	ISO 37 type 1
Elongation at break		300%	ISO 37 type 1
Compression set	22 h /120 °C	4%	DIN ISO 815-1 type B, method A

Properties Cured – ELASTOSIL® Film 2030			
Property	Condition	Value	Method
Density in water	23 °C	1.08 g/cm ³	DIN EN ISO 1183-1-A
Hardness Shore A		27	DIN ISO 48-4
Tensile strength		5.5 N/mm ²	ISO 37 type 1
Elongation at break		450%	ISO 37 type 1
Compression set	22 h /100 °C	5%	DIN ISO 815-1 type B, method A

These figures are only intended as a guide and should not be used in preparing specifications. Cure conditions: 5 min / 165 °C in the press



You can find more about the products here:



Wacker Chemie AG, 81737 Munich, Germany, www.wacker.com/contact, www.wacker.com/siliconfilms, nexipal@wacker.com

Follow us on:   

The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.