Technogel®



The Original Technogel®

What is Technogel®?

Technogel® is a unique "soft-solid" material that combines the 3D deformation of a liquid with the memory shape of a solid. This stable polyurethane-based gel, free of plasticizers, offers key benefits for sealing applications, including high resistance to extreme temperatures and excellent water resistance.

How is Technogel® made?

Technogel® is created through casting and can be combined with injection molding technologies. It has a self-adhesive property that can be covered or left exposed. The gel can be produced in various colors and hardness levels and can be combined with different materials. Manufacturing is done entirely in-house. Non-removable covers include PU films and a PU-coating system, while a PE film can be used as a removable option to reveal the adhesive surface.

Availability of Technogel®?

Technogel® is available in sheets, existing profiles, and custom shapes. Sheets measure 1,000 x 500 mm with thickness options of 1.5, 2.0, 3.0, 4.0, 5.0, 6.0, and 8.0 mm, and can be stamped for custom profiles. It can also be produced in specific profiles with custom tooling and is available in standard and After Sales geometries.

Enclosure Gaskets

Our enclosure gaskets are crafted to ensure superior sealing for a variety of enclosures, providing optimal protection against dust, moisture, and environmental contaminants. These gaskets can be customized in terms of material, thickness, and hardness to meet specific application requirements.



Cable Grommets

Our cable grommets are designed to meet the needs of various industries, ensuring secure and reliable connections for all types of cabling. They can be used in a range of environments and applications, offering excellent strain relief and protection against dust, moisture, and other environmental factors. Customizable in terms of size, material, and sealing type, our cable glands provide optimal performance and durability. Easy to install, they guarantee safety and efficiency in electrical and industrial systems, making them an ideal choice for your projects.



Durability

- + Distilled water
- + Hot water (90°C)
- + Oil IRM 902
- + Oil Diala
- + Ballistol Universal Oil
- + Fuel/Diesel, Kerosene

Customized Seals

Our customized sealings offer tailored solutions for diverse industrial applications, providing unmatched protection and reliability. Designed to meet specific requirements, these sealings ensure a perfect fit through customization of material, size, and hardness. They deliver superior durability, withstanding extreme temperatures, chemicals, and UV exposure, and maintain excellent performance with high resistance to compression and strain. Produced in Germany, our sealings adhere to RoHS and REACH standards, ensuring high quality and reliable availability thanks to efficient supply chains. Apply our customized sealings for optimal, dependable solutions tailored to your unique needs.



- + Sufuric, Acid,
- + Sodium Hydroxide
- + IGEPAL

- + Bitumen
- + Ethyl Alcohol 90%
- + Glue

- + Sweat
- + UV
- + Silicone

We Offering



Sheets

Dimension 1000 x 500mm Thickness 1.5 - 8.0mm

Dimension 210 × 297mm
Thickness 0.3 - 20mm



Customized designs

Please share your design with us.

2D or 3D

Our Benefits

High-Performance Enclosure Gaskets for Industrial Applications

Our gaskets offer reliable sealing solutions with:

IP68 Protection: Ensures maximum protection for electronics.

High Elongation: Up to 1500%.

Strain Relief: Superior performance.

Media Resistance: Complies with IEC and Telcordia standards.

Low Water Absorption: Less than 1.5%.

Wide Temperature Range: -45° to +110°C.

Durability: UV stable and fungus resistant.

Quality Manufacturing: Made in Germany, RoHS and REACH compliant.

Reliable Supply: Short supply chains ensure availability.

Choose our gaskets for dependable, high-quality performance.

Tests

SHOCK ABSORPTION TEST

+ 3x higher than silicon. Biomechanic of Munich, Germany

STRESS/PRESSURE TEST

+ 100.000 strokes without deterioration. PFI Institute of Pirmasens, Germany

FORCE ABSORPTION TEST

+ 60% more than EVA.
PFI Institute of Pirmasens, Germany

CLIMATE CHANGE TEST

changes from - 40/+65 °C approved

FLASH TEST

0,4 bar inner pressure approved

WATER COLUMN TEST

0,5 bar approved

SEALING TEST

Sealing without leakage at -40°C

FUNGAL TEST

ASTM G21: 40 day fungal test approved

UV TEST

ASTM G155: UV Exposure 1000 Hours

Gel Types

Gel Types

Technogel® soft Elastic, UV stable, very soft Shore°°° 15-50

Technogel® medium

Best seller, elastic, UV stable, soft Shore°°° 50-90

Technogel® light

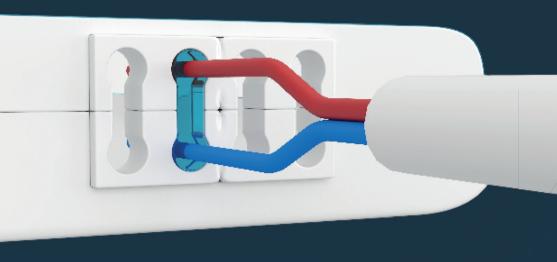
30% more light, elastic, UV stable, soft Shore $^{\circ\circ\circ}$ 65-90

Properties

- + Polyurethane Elastomer
- + free of plasticizer (oils)
- + adjustable Shore hardness
- + OEKO-TEX[®] 100
- + self-adhesive characteristic

Adjustable

- + weight reduction up to 30%
- + Biocompatibility by ISO 10993-5/-10
- + flame Resistant per UL94 V2
- + low water absorption
- + increased thermal stability



Technogel Germany GmbH

Zum Eichberg, 1 37339 Berlingerode - Germany

F +49 (0)36071 363 900 info@technogel.de

Technogel Italia Srl

Via Bassanese Inferiore, 32 36050 Pozzoleone (VI)

T +39 0444 463811 info@technogel.it

Technogel U.S. Inc.

730 Holiday Dr., Suite 330 Pittsburgh PA 15222 USA

P+1878992071 info@technogel.us

www.technogelworld.com