



Shaping Performance

TPU by OKE



Nice to meet you!

Thermoplastic polyurethane (TPU) is a material full of possibilities—flexible, durable, and offering a high degree of design freedom in extrusion and injection molding. This versatility is reflected in our product portfolio. We extrude TPU hoses, flat tapes, and engineering profiles in a wide variety of geometries, colors, and material combinations. Soft-touch components, seals, and connector housings are produced using injection-molded TPU components.

Many of our customers prefer TPU because, unlike PVC, it does not release chlorine-containing smoke gases in the event of a fire. In addition, due to its halogen-free composition, TPU often offers advantages in terms of material or thermal recycling.

Every application has its own unique requirements. We respond to these with customized solutions.

Let's get started!



We are where you are.

As an international partner, we provide our customers worldwide with access to all our technologies. Our production facilities are primarily managed from Germany, enabling us to implement multi-site projects over the long term with a holistic, end-to-end approach.

This allows us to manufacture even highly complex components worldwide and deliver them just-in-time via short shipping routes.



WE ARE ONE.

@ oke-group.com

o oke_group

in oke-group-gmbh

In a nutshell

OKE at a Glance. But there's much more behind these facts: comprehensive expertise, diverse skills, and a wide range of services!



**High Equity Ratio
and Financial Stability**

10 
Locations Worldwide



**Hybrid Components
Using Fiber-Reinforced
Composite Technologies
and Metal Stamping**

>200
Injection Molding Machines



**In-House Machine Design
for Automation Systems**

185
Extrusion lines



**More than just a product:
Value engineering, consulting, and service!**

Spot-on with TPU



#01

Consulting

Our expertise in custom-made products. Especially in applications where precision, material performance, and process reliability are critical.

#02

Material

We offer a wide range of products to meet a variety of requirements, typically ranging from Shore A to Shore D, as well as functional, bio-based, and conductive TPU.

#03

Wall thickness

We manufacture tubes, flat strips, and thin-walled profiles with wall thicknesses ranging from 0.35 mm to 0.50 mm and a tolerance of just ± 0.0125 mm.

#04

Widths

With a tolerance of just ± 0.2 mm, we produce profile widths ranging from 15 mm to 70 mm. Always perfectly wound.

#05

Quality

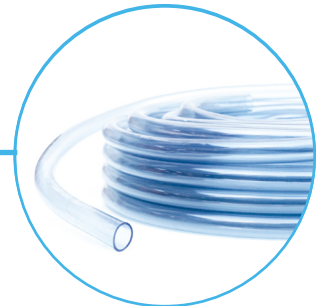
We leave nothing to chance. Our computer-aided quality assurance (CAQ) is an integral part of our quality management system. We continuously measure TPU profiles inline throughout the entire production process.

TPU live

Extrusion, coating, injection molding, laser cutting, ...
Our application examples, featuring a selection
of our capabilities:

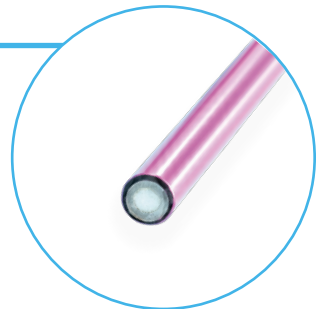
Tubing and Profiles

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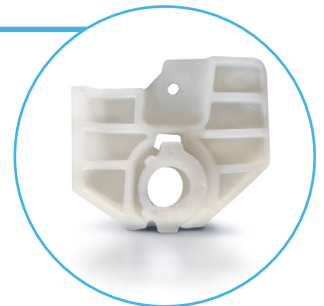
Overmolding

Prototype: We love to experiment. Here, we combine a foam core with carbon fibers and a TPU shell. The result is a profile that's as lightweight as possible, with a soft-touch feel and maximum stability.



Molded Parts

We manufacture TPU molded parts for vehicles with a tolerance of just ± 0.025 mm. When a component needs to be flexible, abrasion-resistant, quiet, temperature-resistant, and chemical-resistant all at once, TPU perfectly fills the gap between hard plastic and rubber.



Tooling Technology

We produce multi-component parts with multiple materials, contacts, and other inserts fully automatically and with high precision. Plug connectors in vehicles are fitted with a TPU seal directly in the mold when mechanical stability is required and when other materials would be subject to wear due to frequent movement. TPU is also the best choice for highly precise, stable molds with thin webs and for applications involving contact with oil or fuels.



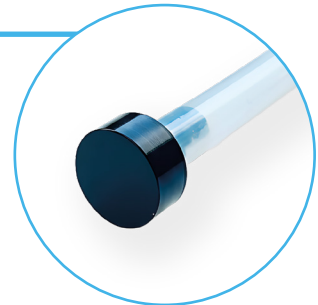
Multi-components

In a multi-component automotive part, TPU serves as a flexible, cushioning, and low-wear contact surface against the windshield. It protects the windshield, reduces noise, and ensures smooth movement.



Laser Welding

We have fully established all welding processes. For TPU joints, we use laser welding, as it produces no abrasion, chips, or particles. Instead, it results in tight welds and high repeatability. Ideal for medical, automotive, and fluid technology applications.



Leanline

Leanline is our process for bonding continuous materials to injection-molded parts. Using this method, we efficiently combine valves, clips, and sleeves in a continuous process, bonding them almost permanently to nonwovens, films, hoses, and tubes. Continuous inline measurement techniques are also standard in our integrated manufacturing processes.



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