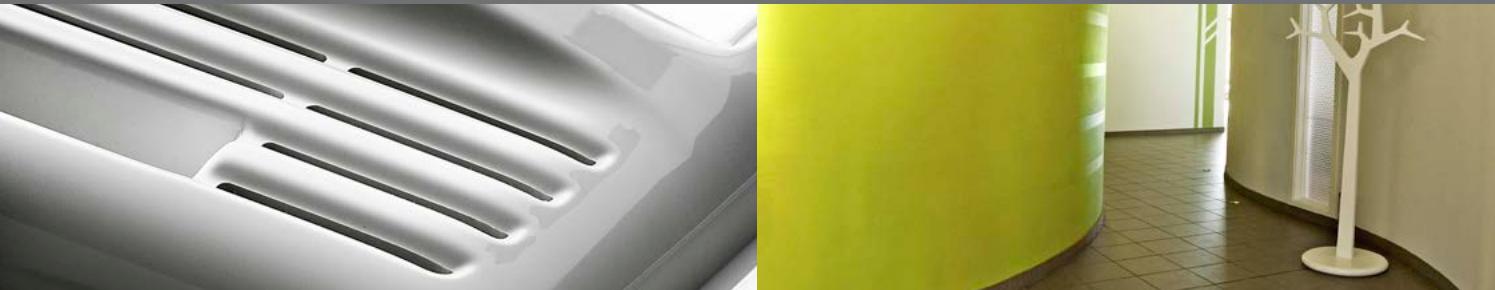


English



The right plastic in the right place!

We work with **thermoplastic**, one of the last century's most important materials. It's elastic, soft, hard, UV-resistant, economical and can protect the environment in use.

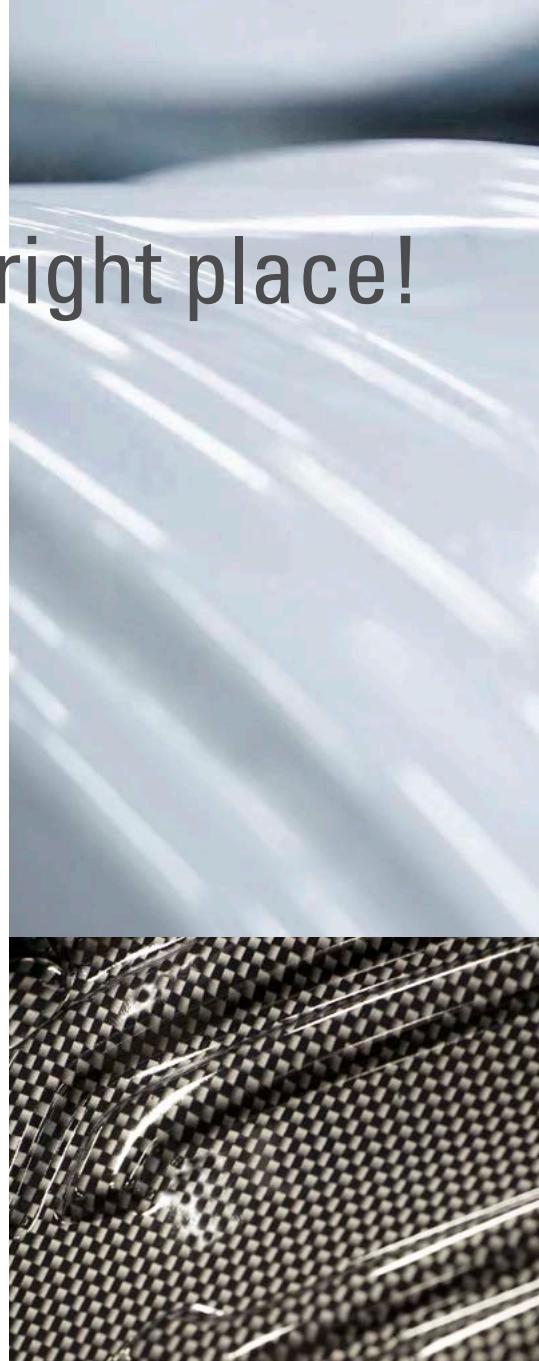
Our materials give customers a wide range of benefits, and plenty of flexibility.

Plexx has worked with various types of thermoplastic since 1954. During all that time, we have always used the latest technology and best production methods, making us the market leader in the Nordic region.

Large Norwegian and international enterprises choose us when developing new products and components. That's why we produce parts for everything from heat pumps, vending machines and shop displays to medical equipment and subsea-related products.

Plastic means infinite options for design and function

- and Plexx has the skills to know which materials are the right ones.





Our philosophy is simple: The customer is king

We offer our customers a total concept, from idea to finished product. That means that we develop, form and process plastic parts in close consultation with the customer.

The customer's requirements are always the key factor for the production process, and we adapt our resources accordingly. We provide good design, the desired level of functionality and eco-friendly solutions to our customers at competitive prices.

We work with people,

a resource absolutely vital to the result. The relationship between satisfied customers and employees is no coincidence.

Companies that want to stay on the leading edge use Plexx as a partner.

Working with our customers, we create long-term relationships and mutual success.



Our production technologies

Vacuum forming

Vacuum forming is performed using a thermoplastic sheet shaped using heat and vacuum. The method is particularly suitable for the production of large items in small and medium-sized production runs, such as machinery covers, vending machine fronts and parts for video conferencing equipment.

The process has limited impact on the environment and the material contains no solvents, or contributes to harmful emissions. The form tool used for vacuum forming is inexpensive, and gives rapid startup.

Vacuum forming

- gives a unique surface finish
- gives a wide range of options for design and geometric solutions
- can be combined with Opido Reinforcement System to provide a stronger product (next page)

Thermoplastic used in production can be supplied in a wide range of colours, qualities and surfaces.





VACUUM FORMING USING ORS AND CNC



High Pressure

High Pressure-forming is vacuum forming using additional high pressure.

The method provides the option of more detailed surfaces on the product. Typical areas of use include medical equipment, lighting, covers, front panels and parts for aeroplanes, boats, cars and trains.

Twin Sheet

Twin Sheet combines vacuum forming and pressure forming (High Pressure) by forming and welding two sheets together in the same process. The method produces a hollow, sealed product without the use of adhesive or other jointing techniques.

The Twin Sheet process gives 3D parts with surfaces according to specification. Typical properties for a Twin Sheet product are strength and rigidity combined with low weight. Twin Sheet products can also be filled inside with foam.

Typical areas of use are pallets, containers for medical equipment, different types of cabinet, leisure equipment, ventilation products and many parts for aeroplanes, cars and trains.

Our production technologies

ORS. Opido Reinforcement System

Vacuum forming + polyurethane = solid!

The ORS technique strengthens vacuum formed plastic by applying several layers of expanded polyurethane foam to the specified thickness and rigidity. There are multiple areas of use.

Fastening elements can be integrated into the strong, elastic material. That allows us to build insulating sandwich constructions that can be used in products where the combination of stability and low weight are important.

Good examples include armour and covers for road rollers.

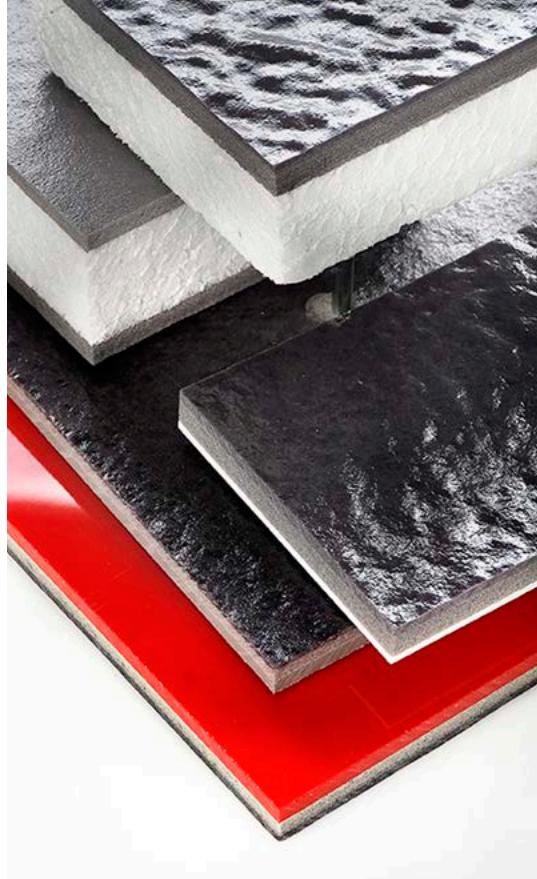
The material can be given a range of properties and recycled - in line with our environment policy.

Injection moulding

Injection moulding is a processing technique with lots of areas of use for plastic. It's ideal for the production of items with complicated geometry and for large production runs, for example.

Material types that can be used are POM, PE, PP, PS, PC and PMMA, plus other more complex special materials.

We are highly competitive on price, quality and delivery times. Factories performing injection moulding are based in Denmark, Poland and Slovakia.





**INJECTION MOULDING:
FOR PRODUCTION OF ITEMS
WITH COMPLICATED GEOMETRY**



**VACUUM FORMING
+ POLYURETHANE
= SOLID!**



Our production technologies

Acrylic thermoplastic processing

Acrylic thermoplastic (PMMA) is a material with excellent characteristics and that is weather and UV-resistant. In its clear form, acrylic thermoplastic can be clearer than glass!

It is used for many display products, advertising and illuminated signs. It is also used in boat windows and solariums, and is often formed into bath tubs, shower floors and other bathroom items.

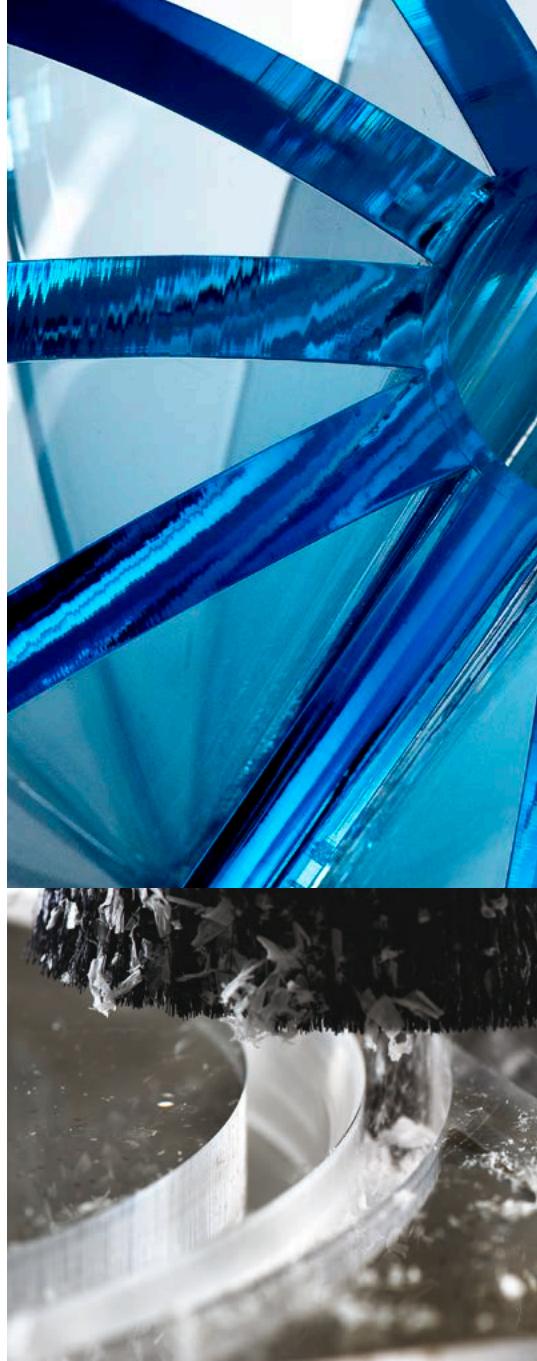
The material comes in many colours, finishes and different qualities.

It can be supplied as sheets, pipes, bolts and profiles. Acrylic thermoplastic is ideal for heat forming, and has excellent adhesive properties.

We have all the equipment needed to produce parts in acrylic thermoplastic, e.g. for laser cutting, forming, gluing, milling and polishing.

This is a material loved by designers and artists.

We also work with other transparent materials, such as polycarbonate (PC) and PET.





**ACRYLIC THERMOPLASTIC
PROCESSING GIVES
CREATIVE SOLUTIONS**

Technical plastic

Technical plastic is the common term for thermoplastic materials that have special characteristics used in technical installations. In many instances, they can replace other materials – and compete with metals for instance.

Technical plastic is used in industry, on land and offshore.

It has a wide range of characteristics, including:

- strength and rigidity
- resistance to wear
- low friction
- chemical resistance
- temperature resistance

We can offer fully-machined special parts according to customer specifications. We have our own factories in Sweden, Denmark and Poland, in addition to skilled partners in Denmark, Germany and Latvia.



Your partner

The Plexx group is the leading supplier of formed and machined plastic parts for a range of industries and sectors in the Nordic region at this time.

Our machinery is continuously updated and we use advanced methods. We have factories in Norway, Sweden, Denmark and Poland, and backed by our long-term partners in Latvia, Germany and Denmark, we can supply exactly what the customer wants.

Quality and the environment have always been important to us. ISO 9001 and 14001 form the basis of our business system. In recent years, we have also been certified according to 9001:2008 and ISO 14001:2004.

We combine long experience with the very latest technology.

Major international customers choose us because they know that working with us gives them what they want.



SP Group A/S

Our current owners, the Danish SP Group, acquired 100% of the shares in Plexx AS via their subsidiary Gibo Plast AS in 2016. The Swedish subsidiary Opido Plast AB is also a member of the group. SP Group employs 1,884 people at 24 factories in 12 countries, all of which are involved in the production and sale of plastic parts.

SP Group is listed on Nasdaq Copenhagen A/S.

SP Group A/S - an overview			
Surface solutions	Surface solutions		
Coatings	Polyurethane (PUR) and Composite	Vacuum forming and Extrusion	Injection moulding and Blow moulding
Accoat A/S Accoat do Brasil Ltda.	Tinby A/S Tinby Sp. z o.o. Tinby Co., Ltd. Tinby Denmark A/S Tinby Inc. Tinby Skumplast A/S	Gibo Plast A/S Gibo Sp. z o.o.	SP Moulding A/S SP Moulding Poland Sp. z o.o. SP Moulding (Suzhou) Co., Ltd. Sander Tech ApS
	Ergomat A/S Ergomat-Nederland B.V. Ergomat Sweden AB Ergomat Inc. Ergomat Canada Inc. Ergomat Sp. z o.o.	Plexx AS/Opido AB SP Extrusion	Ulstrup Plast A/S Ulstrup Plast s.r.o.
	TPI Polytechniek B.V.		SP Medical A/S SP Medical Poland Sp. z o.o.
	Brdr. Bourghardt AB		MedicoPack A/S
	Baltic Rim Ltd.		
	MM Composite A/S		
	MM Composite Inc.		



Plexx - an expert partner in thermoplastic

We offer our customers a total concept, from idea to finished product.

Over 60 years in the business makes us unique in Europe.

Our companies are ISO-certified for quality and environment.

Customers benefit from:

- Good design • Desired level of functionality • Eco-friendly solutions • Competitive prices



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Member of SP Group

