



akaplast
thermoforming

In top form



Akaplast, in top form.



Since it was established in 1999, Akaplast has grown into one of the most renowned vacuumforming specialists in the Benelux region. Client-orientation and healthy entrepreneurship are the cornerstones of our dynamic company. Akaplast utilises state-of-the-art machinery to mould and finish the products. With our high-tech machinery, experienced employees and our pragmatic and flexible approach, we can rapidly fulfil the most wide-ranging wishes our clients might have - irrespective of the industry - at a very favourable price and constant high quality.

Akaplast warms up to every shape.

Vacuumforming technology can be applied to a wide range of fields, the malleability of thermoplastic materials offers countless opportunities when it comes to product-design. Thanks to the relatively low mould costs, vacuumforming technology is an attractive option for both small as well as large series of products, ranging in size from miniature to very large. The wide range of thermoplastic materials on offer means that it is possible to employ vacuumforming for almost any application imaginable.

Akaplast attracts market leaders in every sector.

Thanks to the wide-ranging possibilities of thermoplastics, our reasonable prices, short delivery times and Akaplast's guaranteed quality, renowned companies in the automotive, machinery, lighting and advertising, shipping, agricultural and many other sectors are all opting for Akaplast.



Vacuum forming

A thermoplastic sheet is the basis for a vacuumformed product. By warming up the sheet material to the correct temperature it becomes malleable. It is then, using a mould and vacuum technology, transformed into the desired shape, after which cooling the product preserves its shape and CNC milling disposes of the superfluous material. The result is a high-quality finish.

Mould construction

Moulds are essential to the vacuum-forming process. Akaplast constructs its own moulds out of wood, synthetic resin or aluminium - the best choice depends on the end product and the intended series-run. Wooden moulds are employed for prototypes, while synthetic resin is a

cost-efficient solution for a small series, and aluminium moulds - including water-cooling - are the best choice for large and recurring series. The moulds are manufactured by CNC milling. By creating them in-house Akaplast is able to guarantee the entire process, from design through to the end product. At the same time, Akaplast is also able to provide short delivery-times and to act with flexibility in order to realise your wishes.

Assembled products

Akaplast also offers you various additional assembling services - gluing, ultrasonic welding, polyurethaning and attaching inserts for fastening are all highly-utilized methods.



In top form for machine and equipment manufacturing

Due to increasing demand for automation in almost every sector, many machines and equipment are being developed for specialist applications. The specialist nature of this equipment ensures that they are manufactured and sold in limited quantities only, which means that the application of vacuumformed plastic components will offer many advantages. Aside from the light weight and resistance to corrosion, vacuumforming offers a large degree of malleability when it comes to an attractive design.

The relatively low mould costs mean that the process is perfectly suited to the production of small to medium-sized series. The wide choice of materials and gauges mean that there is a very wide range of applications within machine and equipment manufacturing.

Akaplast provides vacuumforming solutions for, amongst other things: protection and guard hoods, doors, machine casings, conductor strips, servicing panels and drip trays. Akaplast is also happy to transform your wishes into a suitable vacuum-forming solution. Akaplast is able to translate an approved idea into a ready-to-use production series within mere weeks.





In top form for the automotive industry



Many vacuumformed products are used in the automobile industry. Logistics in the industry require suppliers with a high degree of reliability when it comes to timeliness and quality. As a supplier to various manufacturers in this sector, Akaplast has proved that it can satisfy these demands.

Akaplast provides both interior and exterior products. Our available capacity guarantees short lead times and a high degree of flexibility, while our spacious building allows for out of stock deliveries, whereby efficient production volumes can be realised.





In top form for lighting and displays



Much use is made of vacuumformed products in the display and illuminated advertising world, where transparent and colourful thermoplastics can be found in all shapes and sizes. Precise forms are essential for creating a high-quality image.

With our high-tech machinery, we can create an unsurpassed quality of form. If your design must be executed to the

highest possible standards, then you're in the right place if you come to Akaplast.

Vacuumformed products can be utilised in a surprising number of areas. Akaplast also provides vacuumformed solutions for the agricultural sector, shipbuilding, construction industry and interior design field.

In top form for handling and packaging trays

Transport and storage are vulnerable procedures in the logistical process. By using the correct trays and buffer elements, the chance of products being damaged during transport and storage is considerably limited. Vacuumformed handling trays are also employed in the production process. Akaplast designs and manufactures tailor-made trays for:

- the perfect positioning of products or components in an automated production process
- the optimum protection of products during transport and storage

- environmentally-friendly and cost-saving solutions for reuse and increasing the volume of products per cubic meter.
- standardisation of packaging quantities and simplifying stock management.

Attuned to your requirements, Akaplast is happy to advise you with respect to suitable materials, gauge and tray layout. Akaplast will gladly prove to you that tailor-made solutions do not have to be expensive.





In top form for engineers

As an engineer you are occupied with the capricious wishes of your clients on a daily basis. The path to a suitable solution is made up of many side roads, where you can choose from various technologies in order to successfully attain the end product. For small to medium-sized series, vacuumforming is economically often the best choice. In order to find the best solution at the best price on behalf of your client, you need the right partners. With Akaplast as your partner, you will score kudos for both quality and price.

Akaplast's expertise guarantees a vacuumforming solution that fits the requirements of functionality and design. Akaplast will take your working drawing and turn it into the most suitable mould, whether wood, synthetic resin or

aluminium. Akaplast is happy to help you give shape to your clients' wishes. Akaplast will be able to translate an approved idea into a ready-to-use production series within mere weeks.





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Vacuumforming technology can be applied to a very diverse range of fields. As a result, Akaplast is refreshingly multifaceted and always in shape.

Any series size Vacuumforming can be used for any size of series. Thanks to the relatively low mould costs, vacuumforming can be economically attractive for both small and large series. Although vacuumforming is not the first choice for extremely large series, for thin gauge products like packaging trays as well as for high-volume products, vacuumforming is the choice *par excellence*.

An abundance of choice of materials Thermoplastic material is available in a multitude of types, colours, gauges and surface structures. Examples of the materials used are: ABS, acrylate, HDPE, LDPE, HIPS, PE, PET, PP, polycarbonate and PVC. The necessary properties, like transparency, weight, chemical stability and scratch- and impact-resistance, constitute the point of departure for choosing the right material. Material combinations obtained through coextrusion, like ABS/PMMA, ABS/TPO, ABS/TPU or ABS/PVDF offer unique opportunities that are impossible to realise through other plastic-processing technologies.

Quality Akaplast guarantees consistent high quality, based upon years of

experience and the ultra-modern vacuumforming and CNC milling equipment.

Large dimensions Even products of very large dimensions can be created through the vacuumforming process. Akaplast owns one of the largest machines in the industry and it will be a rare occasion indeed when we tell you that we cannot undertake a project.

Fast delivery time Because Akaplast can manufacture the required moulds in-house, has an extensive range of machinery and a strong relationship with its suppliers, Akaplast is able to deliver both quickly and in a flexible manner.

100% recyclable material The materials we use are 100% recyclable and so are completely environmentally friendly. Furthermore, the volume of waste is limited.

Suitable form Akaplast is happy to see your ideas take form, and you are welcome to find out more about both us and the uses of vacuumformed thermoplastics in your industry. Based on years of experience in vacuumforming, our own mould construction and high-quality finishes, Akaplast is also top of the form when it comes to you!

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