

ROWA NEWS

NEWS FROM ROWA GROUP



Dear Business Partners, Ladies and Gentlemen

welcome to the very first issue of Rowa News. The four strong partners that make up Rowa Group – Rowa, Romira, Tramaco and Müller Kunststoffe – have teamed up to present themselves as a powerful alliance under a common logo.

This shared logo allows us to create a visible framework for the synergies and know-how transfer that we have been utilizing for a long time and from which you – our customers – benefit. Four high-

growth enterprises generate a wealth of interesting news. Our Rowa News, a newsletter which will be published twice yearly, aims to keep you up to date about what's happening at Rowa Group. We are delighted to be able to present the first issue in time for Faktuma 2003. Find out more about us – our newsletter contains interesting information about new products, quality and occupational safety assurance at Rowa, our production facilities, employees and much more. We hope you enjoy reading our newsletter!

Yours sincerely,
Udo Müller

— ROWA GROUP —

Rowa Group – Synergies for successful product solutions

Rowa Group – four partners, a common goal: to exploit synergies in order to service customer wishes and requirements even more effectively, efficiently and comprehensively. In 2002, we decided to intensify the level of cooperation between our four companies and to drive this home by introducing a common corporate identity.

The cooperation within the Group has many advantages – for our business partners and customers alike:

- Personnel interfaces, for instance in accounting, ensure swift processing times and uniform logistics.
- Modern laboratories, supported by all companies and comprehensively equipped with checking and testing devices, assure the high quality standard of all our products.
- The mutual exchange of employee know-how promotes flexibility and creativity during the development of new products.
- Special products and techniques

developed by the partner companies enable each individual company to extend its product portfolio to include interesting, cost-effective combinations.

The image of the new Group displays our confidence in our united strengths: Rowa, the source of the Group's name, contributed the blue-yellow colour scheme; the capital 'R' at the beginning of the name incorporates four dynamic arcs - a symbol of the four companies united under this name and the diverse synergies they bring to the alliance.

— ROWA GROUP —

Rowa Group at Fakuma 2003

On 14th October 2003, the doors open for the Fakuma show in Friedrichshafen. We very cordially invite you to visit us at the Rowa Group booth in Hall B1, Stand 7215, where we will be presenting a wealth of interesting news and innovative product developments. Rowa Group is synonymous with industry-specific expertise: our highly competent team at the stand will be very happy to provide all the information you need.



Udo Müller and the following Rowa Group experts will be on hand to answer your questions.:

At Fakuma for you:

Rowa	
14.-16.10.03	Dr. Volker Jordan
16.-18.10.03	Rainer Englert
15.-17.10.03	Robert Puta
14.-18.10.03	Frank Unger
Romira	
14.-18.10.03	Kai Müller
14.-18.10.03	Rainer Hoffmann
Tramaco	
14.-15.10.03	Dr. Carsten Mennerich
16.-17.10.03	Martin Schröder
Müller Kunststoffe	
14.-18.10.03	Georg Ender
14.-18.10.03	Michael Wiedner
14.-18.10.03	Ottmar Sebald

ROWA GROUP

Rowa headed for the U.S.

In September 2003, production of blowing agent batches started in the United States. The newly-founded Rowa Group USA LLC, in Lynn, M.A., will be producing Tramaco's most successful blowing agents for this very important market. The products are already well established on the US market; local manufacturing was previously handled by a partner company of Rowa Group. This new activity will give the Group an enhanced presence on the U.S. market, and we are planning to expand the product programme to include other product groups in the near future.



ROWA introduces: Traute Purzetzki

An organisational genius with many years of experience under her belt, Traute Purzetzki of our logistics division makes sure that deliveries arrive dependably and on time.

ROWA

Rowa masterbatches – for brightly coloured plastics

Rowa has been a leading force in colours since 1980, and we produce colour masterbatches for colouring all

common grades of thermoplastics. The product programme also includes special, additive and combined batches, as well as liquid colour concentrates.

Our product programme comprises the following:

- **ROWALID Colour Masterbatches.** Rowa provides a virtually unlimited repertoire of colours. In addition to standard colours, we also offer special effects, such as transparency, fluorescence, metallic or pearl shimmer.
- **ROWASOL Liquid Colours.** This product range consists of a variety of individual pigments and dyes which can be used for all commonly used thermoplastics.
- **ROWALID Additive and Combined Batches** - for giving plastics specific properties, including thermal and UV stability, antistatic, flame retardant or conductivity. The additives can also be combined with pigment concentrates.

With the Group's customer-specific solutions, flexibility and innovative ideas, Rowa has fast become one of the leading manufacturers of masterbatches. Our products are widely used, for instance in food packaging, in the cosmetics industry, by automotive suppliers, in household items and in technical injection moulding, e.g. for the electronics industry.

We are committed to protecting the environment: we do not use pigments that contain cadmium or lead. Rowa believes in specialization: the Masterbatches division develops individual solutions for colouring technical plastics rather than mass products.

The Group's advanced laboratories are a decisive advantage when developing such sophisticated solutions. Tricky colours can be developed and tested in the Rowa labs and the Group is in a position to offer customers exhaustive analyses of the properties of dyed plastics.

ROWA

Rowasol Liquid Colours: transparent dyes are our strength

Rowa's liquid colours are ideal for colouring transparent plastics. The advantage of Rowa's products lies in the fact that only a small quantity is

required to produce optimum, homogeneous colour distribution with no streaks. For instance, the concentration required to colour PET preforms (PET bottles) is only 0.02% and for other transparent items it is 0.2 - 0.5%.

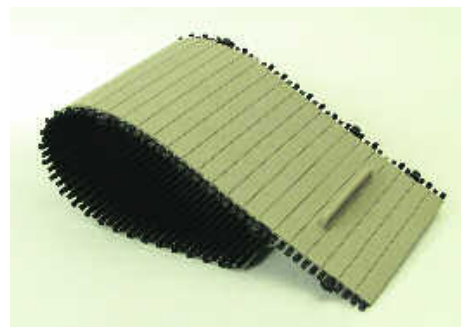


In addition to transparent colours, Rowa's Rowasol range also includes full-coverage pigments, translucent and fluorescent colours, metallic and glitter effect pigments. The products all comply with the regulations of the German Federal Institute for Risk Assessment, meaning that the end products can be used in food packaging and children's toys.

ROWA

ROWALID splashes colour onto the new Renault Scénic

In the new Renault Scénic ROWALID combined batches provide the right colours: Rowa developed special combined colour batches based on Bayer AG's aliphatic TPUs. One of these masterbatches is being used to manufacture the cover panel in the central console for the new Renault Scénic.



Customers make highly specific demands on Rowa's combined batches: they must provide good tactile characteristics, be lightfast and give the TPUs good demouldability. Bayer recommends Rowa's masterbatches for aliphatic TPU applications.

ROWA

Rowa Lacquer – A lacquer factory with a difference

Rowa has been developing, producing and selling the company's own lacquer systems since 1969 and is today one of the market leaders in this specialized field. The product palette comprises special transparent plastic solutions and plastic dispersions which protect, enhance and decorate textile-coated constructions and plastic films. A high level of specialization makes the Rowa lacquer division exceptionally customer-oriented, now and in the future. Customized solutions are all part of a day's work for Rowa. The company



Cars as mobile advertising media: the printed film is protected with ROWACRYL®. For more information, go to www.cultcars.de

supplies the plastics processing industry with 8,500 tonnes per year. Our main products include:

- **ROWAKRYL®** acrylic lacquers for tarpaulins and truck covers, boat covers, awnings, flexible advertising media and furniture foils. Rowa is also one of only three companies world-wide that make protective lacquers for the printed films used in on-car advertising.
- **ROWASIL®** matt concentrates for solvent-borne and water-soluble lacquer systems. What makes this line so special is the fact that the customer can use it in conjunction with any Rowa gloss lacquer to attain the desired level of mattness.
- **ROWAFLO®** fluorine polymer lacquers with exceptionally good phys-

sical properties, e.g. good weather and UV resistance or good cleansing properties. These lacquers are used in textile constructions, such as halls and tents, and also on synthetic leather for outdoor use, e.g. boat or camping furniture.

- **ROWATHAL®** polyurethane lacquers for coating synthetic leather, e.g. garments, upholstery or footwear.
- **ROWASET®** additives, including wetting agents for substrate moistening, defoaming agents, anti-static agents, lubricants or fungicides.
- **ROWATHAN®** coating agents for making PUR or PVC synthetic leather or for textile coatings. Our latest product: water-ink-jet (WIJ) products for coating PVC films and lightweight tarpaulins.



to guarantee consistent, reproducible quality for all our products. "Lean & Clean" is Rowa Lacquer's motto when it comes to investing in advanced equipment to ensure effective production processes. In accordance with strict EU regulations, the production of our lacquers takes place in closed-loop systems. This prevents unnecessary emissions, protects our employees and at the same time facilitates many working processes.

ROWA

Football fever – thanks to Rowaflon

Fans of Hamburg's HSV team can see clearly thanks to Rowaflon, Rowa's unique PTFE coating. It protects the textile roof of Hamburg's AOL Arena against environmental damage from rain, sun, dirt, heat and cold. The football stadiums at Wolfsburg and Stuttgart are also protected with Rowa's easy-to-clean coatings. The Pinneberg-based company is global leader in this specific market – making sure that fans can enjoy pristine football pleasure!

ROWA

Rowa Lacquer enjoys success at viscom 2003

For the very first time and with great success Rowa Lacquer presented the company's product portfolio at this



ROWA

Rowa Lacquers – certified quality

As throughout the entire Rowa Group, safety, quality assurance and environmental protection play a key role at Rowa Lacquer. We constantly run stringent quality and safety checks in compliance with ISO norms. Furthermore, Rowa Lacquer has its own IT process control system which enables

year's viscom, the international trade show for visual advertising and sign-making, which was held from 4 – 6 September, 2003.

As one of the leading manufacturers of print lacquers, the Rowa stand attracted many, many visitors. The show demonstrated just how important protective films have become for manufacturers of visual communication media, and that their importance will continue to increase.



An appealing product for the advertising industry: protective films for large-scale adverts on scaffolding.

Rowa took the opportunity to find out more about the latest printing machines and what properties printers expect printing lacquers to have. Rowa will be expanding this area over the coming months and years: in addition to the existing solvent-borne systems we are currently testing a water-borne system.

ROMIRA

Romira – big in small quantities

For Romira, flexibility and speed are essential. Founded in 1990, the company produces styrene copolymers and has in the past decade made a name for itself in the plastics industry – particularly due to its ability to develop customized solutions and offer delivery times of between 14 and 21 days, which is very fast for the European market. A further advantage is the fact that there is no minimum order quantity: we supply ABS and other technical plastics in quantities of 25 kg and above. For small and medium sized enterprises this is a decisive criterion.

Romira's main products include ABS and ASA plastics marketed under the Rotec brand, blends of ABS or ASA and PC marketed under the Romiloy brand. A valuable benefit for customers

is the fact that Romira manufactures all products on-site, thus enabling the Pinneberg-based company to include additives and pigments in the production process.

Romira's three main products are used in a wide variety of applications in many industrial sectors:

- ABS is used in the household goods industry, the electronics industry and the toy industry.
- ASA has excellent weather and UV stability; it is used in sanitary fittings, toys and in the automotive industry.
- PC and PC blends are frequently used for casings, including computer cases, or panelling components in the automotive industry. These materials are highly shock resistant and have dimensional stability under heat.

Romira's experienced, competent staff support customers in all application questions and provide individual service for all requirements.



ROMIRA

Romira product programme extended to include new transparent materials

Romira is extending the company's product programme: the production facilities can be flexibly changed over at short notice to enable us to offer PC coloured at source (transparent, opaque). The programme comprises a variety of PCs with different molecular weights and PCs with special additive packages on demand.

We are committed to fulfilling all customer demands – from 25 kg right up to full silo truck loads.

Another new addition to the Romira range is Rotec U 400, a further development of the ASA product class. Compared to transparent ABS the new product offers superior transparency, improved surface gloss and optimised surface hardness.

Additionally, Rotec U 400 has the excellent weather resistance of conventional ASA materials, with the added advantage that complete UV protection packages (absorber and HALS) can be integrated, thus giving Rotec U 400 far greater weather resistance than a conventional PC.

Rotec U 400 is also exceptionally hydrolysis resistant. The impact strength modification (weatherproof acrylate rubber) optimised for transparency gives the material the hardness of standard grades of conventional ASAs.

ROMIRA

Romira upgrades pilot plant station

Romira is boosting the company's development capacity for new products and special customer modifications: the company has just upgraded its pilot plant station by adding a new Berstorff double screw extruder ZE 25 UTS.

The modular design enables the machine to be swiftly adapted to any

required experimental set-up. The extruder also has a gravimetrically controlled dosage pump which opens up a multitude of different development opportunities, including specific modification by spraying in reactive components and sensitive additives.



ROMIRA introduces: Maren Detlefs

Mrs Detlefs – familiar to many under her maiden name of Haack – brings colour into the game: she is responsible for organizing colour alignment.

ROMIRA

Rotec and Romiloy by Romira: versatile and flexible

Rotec and Romiloy are Romira's comprehensive and versatile series of ABS and ASA / polymer blend products. Each product can be equipped with specific properties, for instance UV and weather stability.



A great range of products for the automotive industry

Brand new additions to the product range are Rotec SE and TS grades:

- Rotec ABS SE 5 UV ALU: high impact resistance at low temperatures, good flow behaviour in steering column covers, door trim panels, knee panels.
- Rotec ABS TS 15/02 UV: good impact resistance, high dimensional stability under heat, high UV stability for dark colours (black, blue), e.g. for radiator grilles, truck and bus side-view mirrors.

- Rotec ABS TS 15/04 UV: low emissions, good UV stability, good dimensional stability under heat in passenger car cabins, thus eliminating the need for regular lacquering.

For electroplating applications in the automotive industry Romira also offers two blends from the Romiloy electroplating product range:

- ABS/PC 1055 and ABS/PC 1055 F are used for chrome exterior parts for passenger cars, such as radiator grilles, brand emblems or protective rails.

Rotec products for matt materials

Romira is constantly developing new Rotec grades for highly specialized applications. New developments include ABS and ASA grades with matt surface structures:

- Rotec S 510 Matt Lacquer, e.g. for radiator heads
- Rotec ABS 3001 Matt for high-quality ballpoint pens
- Rotec ABS 3001 Matt UV for the automotive industry

Optimum anti-static properties

Romira has developed ASA, ASA/PC and ABS/PC blends specifically for applications that require blends with strong anti-static properties

- Rotec ASA E 210/13 AS is ideal for cisterns and toilet seats.
- Romiloy ASA/PC 6030/01 AS is used in the electronics industry, for instance for heavy duty sockets or covers.

ROMIRA

Luranyl – production smoothly implemented at Romira

In September 2002, Romira bought BASF's luranyl business. In rapid succession all grades were integrated into Romira's production facility and the range has now been extended to include coloured grades. We are very satisfied to see that former BASF customers have smoothly switched over to Romira as their luranyl supplier.

Luranyl stands for a group of blends based on polyphenylene ether (PPE) and high-impact polystyrene (PS-I). In addition to standard grades the range also comprises grades that are streng-

thened with fibre-glass or contain halogen-free flame retardants.

Luranyl provides a highly favourable combination of properties, including high dimensional stability under heat, excellent deformation resistance, stability in hot water, low water absorbency, and it is easy to work with, making it ideal for many different applications.



Luranyl is widely used in electronic components, sanitary fittings, the automotive industry, water pumps and in the extrusion industry.

Romira has no minimum order quantity for the Luranyl product range – we can supply even small quantities. We have most common grades in stock for immediate delivery and our experienced colourists in the Rowa masterbatch department can match customer colours at short notice.

ROMIRA

Romira boosts production capacity

An increasing market share in the styrene copolymer sector and a continued good future forecast for these products led the company to decide to increase production capacity from the present 20,000 tonnes p.a. to 30,000 tonnes p.a. in future. The new production line will open in the fourth quarter of 2003. This move enables us to guarantee customers short delivery times even with increasing production quantities.

TRAMACO

**Tramaco – 30 years
of competence and
international presence**

Tramaco GmbH was founded 30 years ago as a raw materials supplier for the adhesives industry. Following the acquisition by Rowa GmbH in 1979, Tramaco intensified the development and production of its own blowing agents for the plastic and rubber processing industries, as well as primers for the paint and coating industry.



Tramaco is divided into two divisions: "Blowing Agents" and "Primers"; this enables us to expand our specific expertise with a high degree of goal-orientation. Our product range extends far beyond the standard programme, allowing us to provide individual, customized solutions.

sit down with the customer and develop systems that precisely fulfil their requirements. We operate on all five continents: with an export ratio of 60%, Tramaco is one of the world's most renowned suppliers of chemical blowing agents.

Tramaco's product range comprises the following main product groups:

- Tracel/Unicell blowing agents for extrusion, injection moulding, calendaring, plastisol and rubber technologies, providing precisely the right chemical and physical attributes for the polymer being used. Our blowing

- Plastic additives. Tramaco has a wide palette of additives, including antistatic agents, flame retardants and cell stabilizer. The company also supplies combined masterbatches with blowing agents.

TRAMACO

**Chemical blowing agents –
more essential than ever**

After a period in which chemical blowing agents were replaced in conventional injection moulding applications by new mechanical developments, such as gas counter pressure, gas internal pressure or the sandwich moulding method, recently chemical blowing agents have made a comeback as an effective solution to today's production challenges.

Chemical blowing agents have been used in injection moulding for over 40 years. For instance, structural foam parts, e.g. palettes, are still chemically blown. Processes such as gas counter pressure, expanding mould or sandwich injection moulding with a blown core are available if a good surface finish is requested.

As a rule, chemical blowing agents compare very favourably with physical blowing methods. For instance, chemical blowing agents provide weight reduction and dimensional stability, in many cases without or with much lower investment input because few or no construction modifications need to be made to injection moulding machines. Cycle times and clamping forces can also be reduced.



Unlike other technologies, chemical blowing agents are not subject to a license fee.

Technical polymers are also increasingly being foamed these days. Tramaco

provides customized solutions for nearly all types of plastics. Our product range also includes special blowing agent masterbatches for glass-fibre reinforced polymers.

We have developed highly compliant systems which yield good surface characteristics and prevent sink marks and warpage.

Tramaco's product range always has the right solution for processing temperatures from 120 to over 300°C and all materials from PP to PC, TPE to PPO, and EVA to PBT.

Tracel PO 4155 F

A new addition to the Tramaco range is Tracel PO 4155 F, a customized granular blowing agent for thermoplastic elastomers (TPE) used in the production of plastic corks for wine bottles.

Foaming with a chemical blowing agent reproduces the characteristics of natural cork, but with a number of advantages: the bottle is easier to recork, there is no typical cork flavour and the wine is not contaminated by cork particles when it is opened – and of course these TPEs comply fully with food regulations.

The production of plastic wine corks sees the plastics processing industry reacting to meet a growing demand which cannot be fulfilled by natural cork.

TRAMACO

**Dust-free blowing
agents for the rubber industry**

Blowing agents in powder form are often used in the rubber processing industry, but there is more and more pressure to change to dust-free alternatives.

The use of powders treated with paraffin oils, also called pastes, with active contents of 75% - 95% has considerable advantages in this field. In addition to the reduction of dust contamination, it is also easier to compound. Blending times can be further reduced with elastomer-bound products with pre-dispersed blowing agents. The standard form of these products is a granulate, but they can also be supplied as slabs. A technical and economically appealing

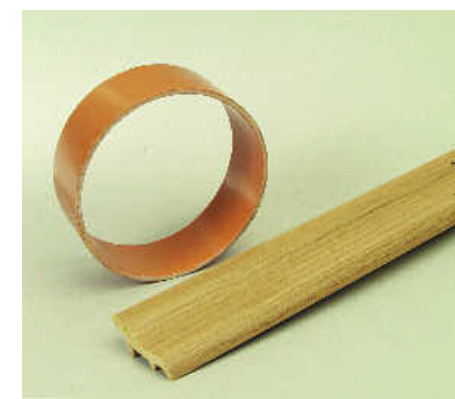


compromise between pastes and elastomer-bound granulates is our compressed granulate. In times of increasingly stringent safety and hygiene regulations in the work place, these high-density products are a cost-effective, practical alternative.

TRAMACO

**Extrusion – new
developments secure
Tramaco's leadership**

A key focus in Tramaco's product range is on chemical blowing agents for foam extrusion of thermoplastics. Intensive development work has enabled us to expand our product lines in cooperation with our customers to cover two important fields of application.



The Tracel PP product line has been extended, enabling us to provide even finer foam structures, especially in PP films. Foam sheets and profiles also benefit from this development.

The use of the Tracel G 5000 series in PVC foam-core pipes has enabled customers to benefit from considerable technical improvements, e.g. in terms of mechanical characteristics, density, dosage, etc. Pipe manufacturers, many

of whom are struggling in a difficult economic environment, will be particularly pleased to hear that these products are extremely cost effective.

These products are already being used not only at leading European extruders but also elsewhere in the world.

MÜLLER

**Müller Kunststoffe:
growth fuelled by flexibility
and innovation**

Müller Kunststoffe is the southernmost of the four companies in Rowa Group. Based in Lichtenfels, the company was founded in 1965 and today is a leading soft thermoplastic compounder.



Müller Kunststoffe develops customer-specific solutions in TPE/TPO, TPU, soft PVC and masterbatches. Advanced granulation facilities, a wide range of standard products available on demand, and highly rationalized production processes ensure short delivery times. The opening of a completely new production facility in Lichtenfels/Schney in 2000 and the conversion of the existing plant in 2003 have allowed us to boost our production capacity still further. Many years of application expertise and a modern laboratory enable us to provide at short notice innovations and product improvements with systematic quality controls.

Our product portfolio comprises:

- TPE: the company produces thermoplastic elastomers under the brand name LIFOFLEX®. In addition to simple SBS for the footwear industry, we also make compounds based on SEBS, SBS/SEBS and TPO. The product line includes varying grades for different processing methods from injection moulding to extrusion, co-extrusion and blow moulding. Many grades are foamable.
- TPU: Müller Kunststoffe originally developed LIFOPRENE® PU compounds based on polyester TPU for


**TRAMACO introduces:
Helmut Krämer**

Asia in the morning,
Brazil in the evening:
Helmut Kramer in
international sales is
there with valuable
advice for customers
world-wide.

This level of commitment to customer satisfaction pays off: Tramaco's customer relations are enduring, fruitful and based on a sense of partnership. In many cases our application technicians

the footwear industry. Through constant development and refinement these products are now also available for the technical and automotive industries. Foamed grades for injection moulding or extrusion applications are also available. All products can be prepared to customer and application specifications with special additives and pigments.

- Masterbatches: in addition to LIFOPRENE® PU Müller Kunststoffe also markets a wide range of additive and colour masterbatches for standard TPUs under the brand name LIFOBATCH® PU.
- PVC: LIFOLIT® is Müller Kunststoffe's soft PVC in Shore A hardness from 45 to 98 with specifically adjustable properties. LIFOLIT® Compounds are available in a variety of grades, including crystal clear and grades that comply with Federal Health Agency regulations for contact with foods.



MÜLLER Kunststoffe introduces:
Georg Ender
Creative and future-oriented: authorized signatory Georg Ender is responsible for development, sales and business management.

MÜLLER

Innovative foam systems for TPE and TPU

Müller Kunststoffe has developed foam systems for TPE and TPU, thus enabling us to offer customers a comprehensive array of services, ranging from the raw concept right through to product maturity, taking in along the way project-related development of the basic material, selection of the blowing agent components, tool layout and design, and selection of the process parameters (injection moulding or extrusion). The systems produce a considerable reduction in weight, thus con-



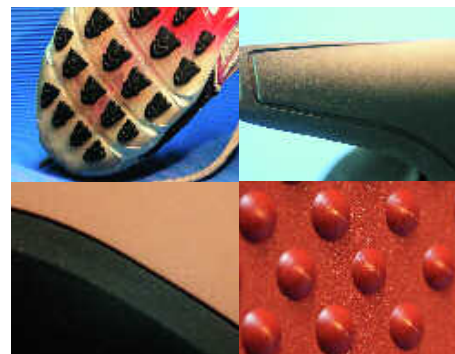
serving valuable material resources. These products are widely used throughout a great variety of product groups.

MÜLLER

TPU 7200: fast cycle times and simple to deform

With the new LIFOPRENE® PU 7200 series Müller Kunststoffe has launched a novel TPU compound which has a processability comparable to TPE. This product series has exceptionally fast cycle times and is simple to deform, as well as helping to minimize the problem of pock marks and overmoulding.

Thanks to a special combination of additives thermal degradation can be arrested for a long time. This guarantees consistent quality, even if the production process is irregular. These products are especially suitable for technical injection moulding. In addition to processing benefits, LIFOPRENE® PU 7200 provides significantly improved slip-resistance and tactile qualities that are similar to rubber. The Shore A hardness of these products lies between 58



and 92. The company is planning to extend the series to include products for extrusion applications.

MÜLLER

Cork elastomers for that smooth, natural feel

Müller Kunststoffe is extending the company's product portfolio to include cork elastomers based on a variety of different components, such as SEBS, SBS, PVC, TPO and TPU. By adding natural cork the end product has a design that is very similar to real cork. We also offer special colouring systems to enable customers to create their own individual product.



Different carrier materials enable customers to produce end products with a wide variety of mechanical properties, such as the cork-like look and feel of the product described above. Suitable for both injection moulding and extrusion, elastomers are ideal for a wide array of applications from handles for household goods or toothbrushes, sports items, furniture, tools, right through to toys. They can also be used in orthopaedics: with the aid of rotary system it will in future be possible to make thermoplastic cork insoles. This system offers significant time and cost reductions compared to duroplastic systems.

Published by: Rowa Group
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25421 Pinneberg
V.i.S.d.P.: Udo Müller

Edited by: Menyesch Public Relations

Graphic design: Winneberger & Haacker



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