

ROWA NEWS



NEWS FROM ROWA GROUP

ISSUE 02/2022

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Page 02 **ROWA GROUP**
Reductions in CO₂ thanks to hydropower

Page 07 **ROWA Masterbatch**
Advances for recycling

ROMIRA:
NEW SOLUTIONS
FOR IMPROVED
DESIGN AND LESS CO₂
PAGE 04

CONTENT

ROWA GROUP

> 02 Reductions in CO₂ thanks to hydropower > 02 Sales force conference: Four days of exciting content in offline mode

ROMIRA

> 03 Management visit to ROWA KOREA > 03 New recruits join the ROWA GROUP

ROWA LACK

> 03 Bart Hulpiau: New market developer in the ROMIRA team > 04 New solutions for improved design and less CO₂

ROWASOL

> 05 Quality is our aspiration

ROWA MASTERBATCH

> 05 ROWASOL collaborations worth seeing at K

> 06 Thinking about the future today > 07 Making the (almost) new from the old – Advances for recycling

> 07 ROWA Masterbatch employee makes works of art from plastic waste > 07 EcoVadis: Gold follows silver

ROWA INC.

> 08 Expansion at the north american location

TRAMACO

> 08 Foaming agents for green plastics





Kai Müller
CEO
ROWA GROUP

Dear Business Associates,
dear Ladies and Gentlemen,

Sadly, there can be no talk of relaxation – now more than ever, we are facing extreme societal, political and economic challenges. But in recent years, and since the beginning of the pandemic and the resulting consequences for our markets and supply chains in particular, we have also seen that creative and constructive collaboration can be often be the key to new solutions. And that's why we are particularly looking forward to the upcoming K trade fair and the exchange with you, with our customers, partners and industry contacts.

Various new developments and concepts focusing on the topic of sustainability, which is so important in many respects, demonstrate that we are well positioned within the group of companies even in times such as these. In this issue of ROWAnews, we tease a few of these topics and will then be happy to go into more detail at our trade fair stand: On page 7, for example, you can find an article about the new additive from ROWA Masterbatch which helps to improve the recycling rates for polymers. TRAMACO has put together information about the TRACEL® foaming agent for green plastics on page 8. And on page 4, we present the CRE.ACTIVE design solutions from ROMIRA, which contribute to the reduction of CO₂ in an innovative way.

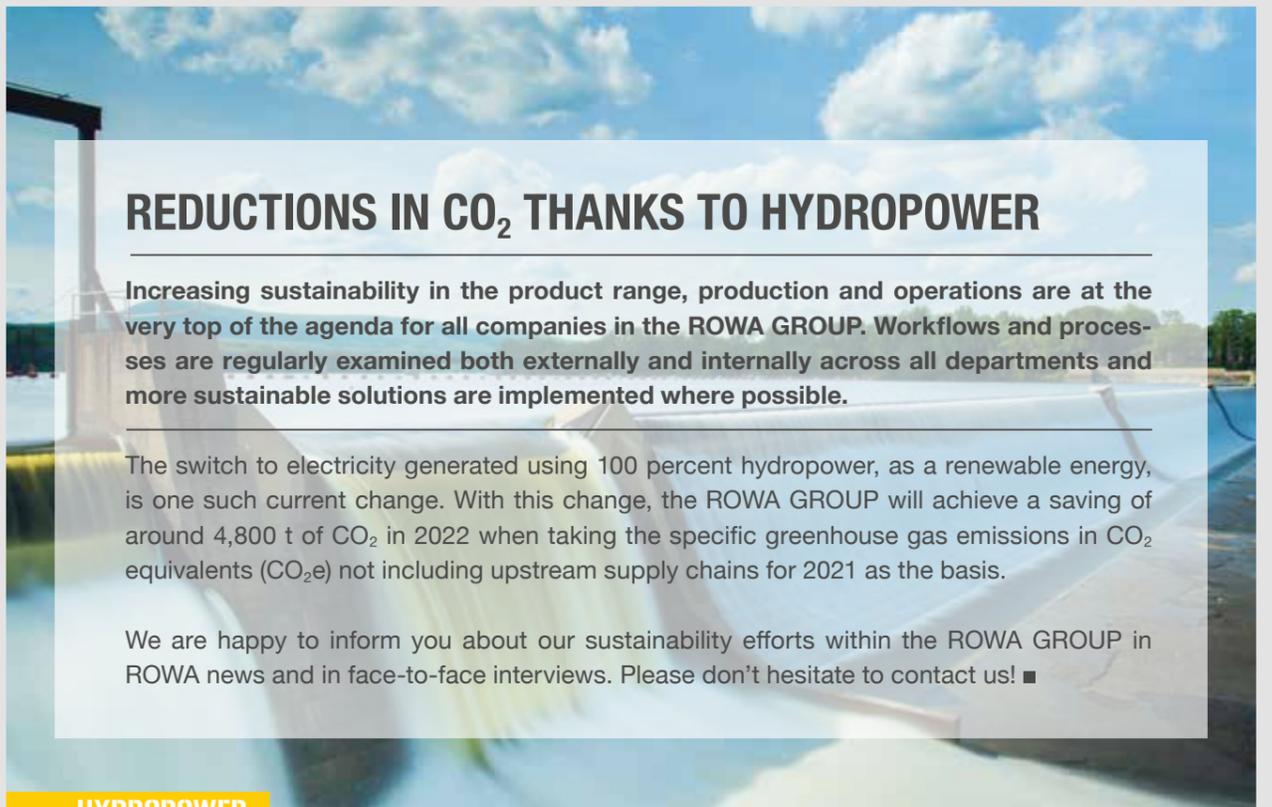
The ROWA Masterbatch trade fair team are showcasing another, particularly vivid example of our forward-looking vision – namely the 2023/2024 trend colors! You can learn what they are on page 6, and you can see them live at our **Stand B28 in Hall 8A**. My colleagues and I are looking forward to a reunion and exciting discussions in which many new ideas are sure to come about again and opportunities will be identified!

With kind regards,

Yours Kai Müller

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REDUCTIONS IN CO₂ THANKS TO HYDROPOWER

Increasing sustainability in the product range, production and operations are at the very top of the agenda for all companies in the ROWA GROUP. Workflows and processes are regularly examined both externally and internally across all departments and more sustainable solutions are implemented where possible.

The switch to electricity generated using 100 percent hydropower, as a renewable energy, is one such current change. With this change, the ROWA GROUP will achieve a saving of around 4,800 t of CO₂ in 2022 when taking the specific greenhouse gas emissions in CO₂ equivalents (CO₂e) not including upstream supply chains for 2021 as the basis.

We are happy to inform you about our sustainability efforts within the ROWA GROUP in ROWA news and in face-to-face interviews. Please don't hesitate to contact us! ■

HYDROPOWER

**Group-wide sales force conference with colleagues both old and new
FOUR DAYS OF EXCITING CONTENT IN OFFLINE MODE**

A great deal of interesting content from the various subsidiaries was shared and discussed at this year's sales force conference at Gut Kaden near Hamburg in May. As always, the focus was on the diverse customers of the ROWA GROUP with their latest developments in their respective industries and the future focus on the current market requirements in the plastics industry.

Alongside the professional exchange, the sales colleagues enjoyed the get-together and the opportunity to finally talk to one another about ongoing projects and news in person again without the digital communication methods which have become the norm these days. Current trends in the automotive industry, the cosmetics industry and other areas of application for high-performance plastics were the focus of many discussions.

Increasing emphasis is given to the topic of sustainability and the CO₂ footprint. This aspect is becoming ever more important both for the ROWA GROUP and for its customers. And so colleagues discussed various approaches which go beyond simply recycling plastics in detail at this conference.

Please don't hesitate to ask about individually tailored options. Our team would be delighted to discuss the topic with you.

SUCCESSFUL DEBUT FOR NEW COLLEAGUES

At the same time, the conference was used as an opportunity to welcome new sales colleagues: Denis Wolber is responsible for the sales regions Southwest Germany and Switzerland. With his many years of experience in the field of technical plastics, the state-certified plastics engineer previously worked as an application engineer and account manager, and therefore has broad knowledge of the ROMIRA customer-specific plastics.

A new industry expert in field service has also come on board in Benedikt Schierl. Mr. Schierl is responsible for North East Germany and was already looking after some

of his customers from the head office in Pinneberg. He is now looking forward to getting to know his customers in person and informing them about the broad range of customer-specific products and solutions.



The participants at the sales force conference at Gut Kaden with new colleagues Denis Wolber (1) and Benedikt Schierl (2) and soon-to-be retiree Robert Puta (3).

But it's not just the new colleagues for whom this conference was a very special one: This was the last sales force conference for long-serving colleague Robert Puta, who will be taking well-deserved retirement at the end of December after almost 23 years with the ROWA GROUP. He will take the opportunity to bid a fitting farewell at our Stand B28 in Hall 8A at this year's K in Düsseldorf. ■



NEW RECRUITS JOIN THE ROWA GROUP

The skills shortage and general labor shortage is one of the many major challenges facing the economy here in Germany. The companies in the ROWA GROUP are also feeling the strained situation in the labor market but, among other things, are pleased to have new, energetic support.

Four trainees started their training on August 1: Lena Krause and Carolin Meyer are training as industrial clerks at TRAMACO and the holding company. Eduard Kanarski and Dimitri Kirin are undertaking training as plant and machine operators at ROWA Masterbatch and ROMIRA. We are particularly pleased that three of our new trainees inherited their enthusiasm for ROWA from their parents and are now supporting us as young professionals.



EDUCATION

In total, there are now five business trainees and three with an industrial background training within the group of companies. We also wish all of our new colleagues a good start! Anyone who is interested in our training positions or other current vacancies can find all of the relevant information on our website under "Career". ■

MANAGEMENT VISIT TO ROWA KOREA

After the strict entry conditions for some regions on the Asian continent were relaxed in the spring of this year, in June, the management of the ROWA GROUP and ROMIRA took the opportunity to visit the key economic region of South Korea, including their own newly designed site in Yesan. Ms. Kim-Ageley and Kai Müller gained a first-hand view of the numerous positive changes on the ground.

The factory has seen an upgrade in more than just looks under the leadership of Mr. Han – investments in the new high-performance dissolver and in the new truck for deliveries on short notice have already resulted in improved working conditions and workflows. The ROWA GROUP consistently implements the 5S method at this site too.

The ROWA GROUP is confident that business will continue to boom for ROWA KOREA. A new, interesting application for a ROWA lacquer: The coating of fire-resistant suits for fire departments which are, in part, international is an indication of this.

The trip demonstrated once again how important it is to have face-to-face contact and exchange with local business partners and employees. Mr. Han will accompany customers to the K show in October and use the time afterwards for a return visit to Pinneberg. ■



f.l.t.r.: Mr. Müller, Ms. Kim-Ageley, Ms. Kim, Mr. Han



Energetic support: NEW MARKET DEVELOPER IN THE ROMIRA TEAM



BART HULPIAU

The strategic focus in the field of High Performance Polymers (HPP) and support for the local sales organization – these, in short, are the tasks for the new market developer, Bart Hulpiau.

The qualified engineer, who lives in Belgium, has been supporting the sales department when it comes to market development for ROMIRA HPP for more than a year.

just in the automotive industry, but also in the fields of industry and consumer goods – he is the perfect addition to the sales team for the new High Performance Polymers, which include our long-established PPO product family LURANYL® as well as the latest member of the product range ROMITRON® PPS and other high-performance plastics. ROMIRA consistently continues the expansion of the product portfolio, which started in 2019, with this item.

ROMIRA already invested in new high-temperature extrusion lines for this field three years ago and brought development know-how on board. Specific projects with the product genes typical of ROMIRA are now being brought to market with Bart Hulpiau. Here too, our aspiration is to offer customer-specific solutions which work at high usage temperatures. ■

Bart Hulpiau operates on the European plastics market from Gent. He is constantly in touch with his development colleagues in Pinneberg in the process and reports directly to the Head of Sales, Sven Guzielski.

With his many years of experience in the technical and commercial field of technical thermoplastics and their processing, and in collaboration with OEMs – not



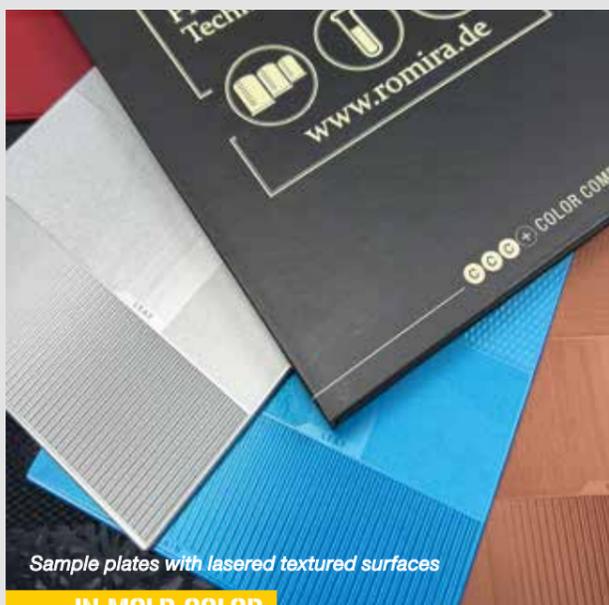
CRE.ACTIVE Design by ROMIRA NEW SOLUTIONS FOR IMPROVED DESIGN AND LESS CO₂

Known as an expert in compounds for technical plastics, ROMIRA has offered and developed an innovative portfolio of solutions over many years. The combination of color expertise from the CCC (Color Competence Center) and expertise in the formulation of plastics have resulted in the ability to continually achieve further developments in the possibilities of aesthetic surfaces in comparison to what currently exists.

Solutions based on CRE.ACTIVE Design IN MOLD COLOR and in combination with functionality provide the answers to current market challenges which also demand the fulfillment of technical requirements such as specific mechanical properties and, for example, resistance to chemicals or weathering.

Instead of having to compromise, the CRE.ACTIVE Design approach makes it possible to achieve compatibility between the following elements:

- » INNOVATIVE DESIGN
- » REDUCTION OF THE CO₂ FOOTPRINT
- » COST REDUCTION
- » RECYCLABILITY



Sample plates with lasered textured surfaces

IN MOLD COLOR

CRE.ACTIVE DESIGN - IN MOLD COLOR

IN MOLD COLOR solutions facilitate countless and innovative design possibilities: The CRE.ACTIVE Design portfolio includes technical plastics in colors with profound impact, with high-gloss finishes and/or matt effect on smooth or textured surfaces and also with the possibilities of a metallic effect, soft touch or ceramic feel.

A combination of surfaces with high-gloss, grained and laser-textured areas can be created on the same part with the use of just one tool.

CRE.ACTIVE Design provides a multitude of design options while at the same time offering significant energy and cost savings in comparison with the use of multiple tools and subsequent surface treatments such as lacquering.

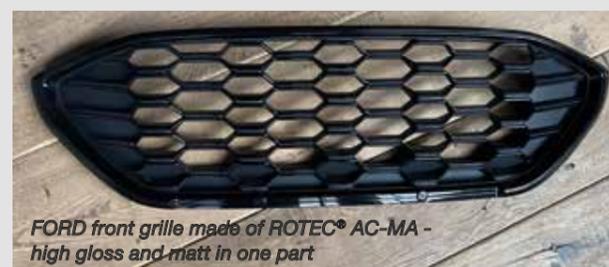
Reduction of the CO₂ footprint is a current and shared challenge for all sectors. There are various possible paths to achieving this goal – the CRE.ACTIVE Design IN MOLD COLOR solutions immediately offer multiple benefits because they optimize the entire process: No additional processes are required for part decoration after injection molding, for example, the transport and energy costs are lower and fewer raw materials are used – meaning that the finished product has a significantly lower CO₂ footprint than a product produced using conventional methods.

The recyclability of the IN MOLD COLOR solutions provides additional benefits as a valuable resource for a closed loop materials cycle because no additional color lacquer is used.

CRE.ACTIVE DESIGN – FUNCTIONAL PROPERTIES WITH NO SURFACE TREATMENT

ROMIRA makes a further contribution to CO₂ reduction with the IN MOLD COLOR solutions through functionalization of the part surfaces through appropriate modification in the compound with no further treatment of the finished part. The use of tribologically functionalized compounds constitutes a cost-effective, recyclable and durable solution, for example, in contrast to laborious work with anti-squeak lacquer or manual application of anti-squeak strips at the contact points through to avoidance of the use of greases. The use of these added anti-squeak measures also makes recycling more difficult or even renders it impossible.

ROMIRA has been successfully working on the development of tribological compounds for automobile manufacture for many years and offers solutions for all points where direct contact between components is unavoidable owing to design factors. The innovative ROMILOY® and ROTEC® compounds such as on the basis of ABS, PC+ABS, PC+ASA,PA and PBT were thus developed in order to achieve tribological



FORD front grille made of ROTEC® AC-MA - high gloss and matt in one part

effects against PA compounds with mineral or glass reinforcement, as well as synthetic leather as a friction partner, particularly for plastic part applications even after long-term annealing at high temperatures.

Among the array of successful applications, it is possible to name solutions with tribological compounds from ROMIRA which are used in the field of folding consoles, armrests, locks, slide rails, ashtrays, switches, door retaining rods, height adjustment units, seat belts, sunroof elements and linkages.

When it comes to wear, these compounds also offer an advantage over material solutions with PTFE additives, which have lower surface quality and are subject to higher wear in endurance tests: Parts made from the ROMIRA compounds stand out with excellent wear resistance and long-term properties and do not require any additional surface treatment.

The CRE.ACTIVE Design solutions from ROMIRA therefore make a significant contribution to improvement of the carbon footprint, whether just as IN MOLD COLOR or with integrated functionality. ROMIRA is proud to have been able to provide numerous commercial applications with the CRE.ACTIVE Design solutions already.

The trade fair team will be delighted to present the CRE.ACTIVE Design solutions to you in person at the upcoming K trade fair! ■

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QUALITY IS OUR ASPIRATION

In addition to flexibility, customer focus and innovation, product quality is one of the key pillars for the ROWA Lack corporate philosophy. For ROWA Lack, product quality also means ensuring consistently high quality in every batch of products manufactured and delivered. Over time, ROWA Lack has implemented ever more comprehensive measures in the incoming raw material inspection and outgoing finished goods inspection department in order to ensure this aspiration is achieved.

Regardless of the raw material supplier's delivery specifications and inspection records, every batch of raw materials delivered is subject to an incoming goods inspection. The inspection criteria are optimized, to the greatest extent possible, for the ROWA Lack-specific properties of the raw material often differ from the raw material manufacturers' inspection criteria, which are kept more general. Recurring fluctuations in characteristics which are within the specified range are communicated to production and can be taken into consideration when using the batch. The inspection values for every batch of raw materials delivered are stored in the long term in the LIMS database.

Every stored batch of raw materials is given an expiry date. Once this date has passed, the batch of raw materials is automatically set back to "not inspected" status – it therefore cannot be used in production. The batch of raw materials can only be released following complete re-inspection. This makes it impossible for outdated raw materials to be used in production. Direct integration of the LIMS system into the production planning and ERP system ensures that only raw materials which have been inspected and released can be used.

There is a similarly comprehensive inspection program for the finished products which are manufactured: A detailed and individual inspection plan is filed in the LIMS system for every product to be manufactured. Inspection criteria and tolerances are determined separately for each product and optimized as required as the pool of data increases. The respective batch can only be released if all inspection criteria are within the specified range. Full integration of the LIMS software into the ERP



LABORATORY EQUIPMENT FOR QUALITY TESTING AND MONITORING

system makes it impossible for a batch of finished products which has not been released to be invoiced and therefore delivered.

In order to guarantee traceability in the event of any irregularities, a laboratory sample is archived for every batch inspected (raw materials and finished products). The current storage capacity is sufficient for a retention period of about two years, but in many cases the retention period is limited by the shelf life of the raw materials and finished products. It is also worth noting that our production planning and ERP system ensures complete batch tracking – this means that the batches of raw materials used for production are documented in detail for every batch of finished products.

Although ROWA Lack is already well-positioned in the field of raw material and finished product inspection with

its current processes, that doesn't mean that measures in this area are done and dusted: We are constantly working on further optimizing the processes in order to deliver the best possible quality.

It is also worth noting that the processes outlined are, of course, only part of the measures taken to ensure consistently high and robust product quality. Processes are also continuously being optimized in production and in process technology. ■

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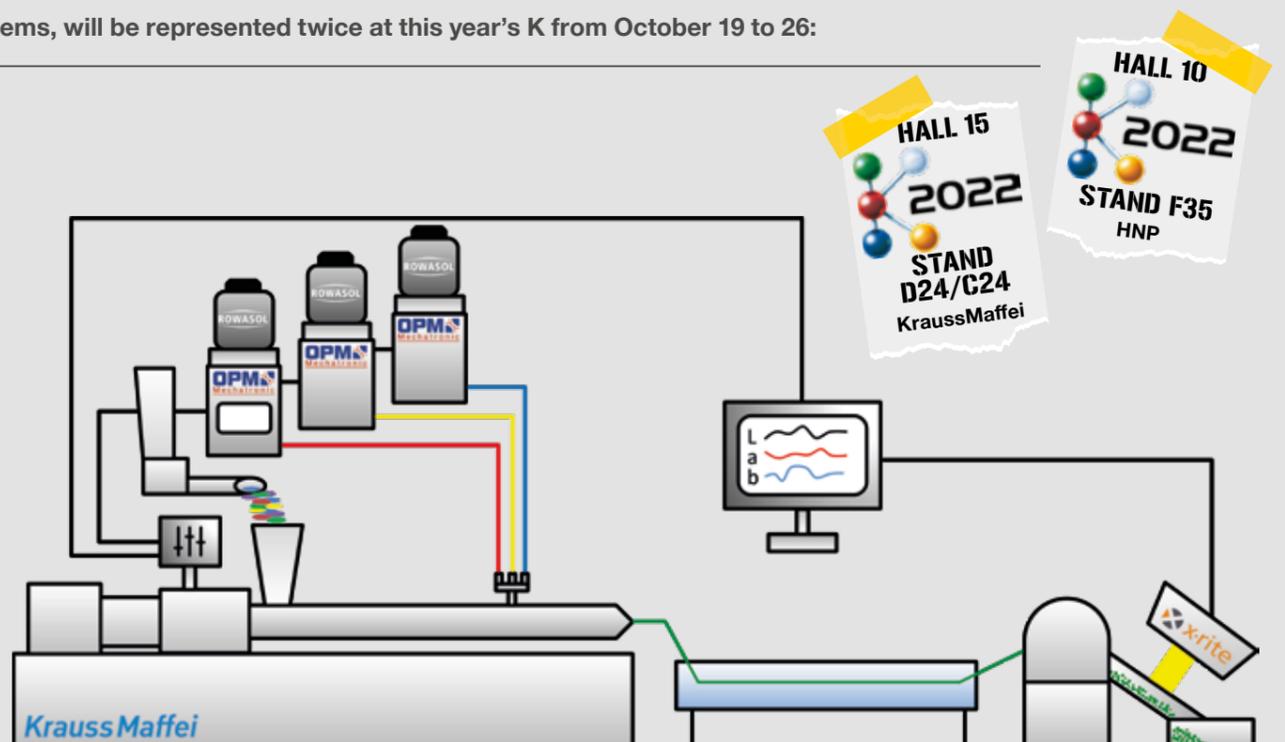
ROWASOL COLLABORATIONS WORTH SEEING AT K

ROWASOL, specialist in liquid colors and dosing systems, will be represented twice at this year's K from October 19 to 26:

ROWASOL colors will be running with automatic color regulation at the KraussMaffei booth in **Hall 15, Stand D24/C24**. Here, KraussMaffei is presenting ColorAdjust, an innovative system for color measurement and control in the recycling process.

HNP Mikrosysteme and ROWASOL will also be repeating their trade fair collaboration, which was successful at last year's FAKUMA: The colorDoS® dosing systems from HNP Mikrosysteme will demonstrate a quick, clean ROWASOL color change on an injection molding machine in **Hall 10, Stand F35**. ■

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Color expert ROWA Masterbatch already has the trends of the future in its trade fair kit! THINKING ABOUT THE FUTURE TODAY

For ROWA Masterbatch, keeping in touch with the latest color trends is a matter of course. The company, which specializes in polymer-specific developments and the coloring of plastic applications of all types, always has the current trend colors, such as the color of the year as selected annually by the Pantone Color Institute in its range. But that's not enough: the team at ROWA Masterbatch is now looking at the topic of colors particularly proactively and with particular vision – and can supply the trend colors for 2023/2024 now!

ROWA Masterbatch has determined the future trend colors in collaboration with effect pigment manufacturer Kuncai – the results are six colors which were identified in a range of variations. To this end, ROWA Masterbatch has modified the base colors with high-quality effect pigments which provide an iridescent effect or glitter and which intensify the base color. The resulting color worlds are also, not least, mood worlds in which consumers will find themselves in the coming years:

The **ASTRO DUST** color is a captivating, mid-tone red, the mineral color of which brings to mind images of the Mars landscape and the expanses of the universe. Astro Dust is sure to have a role to play in cosmetics in particular. The effect pigments used are a punchy, vibrant red in which the sparkle, the color intensity and the particle size have been optimized such that the pigments are suitable for a wide range of applications. A second effect pigment offers a metallic red with a luxurious sheen which intensifies the effect of the vibrant red tones.

The second color also takes a long view: **GALACTIC COBALT** is an intensive, highly dynamic color inspired by the space age which will be found in a wide variety of product sectors in the coming years. A group of blue tones which offer a multitude of moods from deep, almost violet shadows through to the lightest aqua blue are used as effect pigments – from vibrant and dramatic through to soothing.

The color of tranquility and balance which consumers will be able to use to create a stress-free environment goes by the name of **SAGE LEAF** and is best described as a calming green. Here, ROWA Masterbatch works with pearlescent green pigments which generate a vivid, natural color. The colorists have used a multicolor effect pigment for other variants. This produces a harmonious red/green gradient.

E.V. Conceals a vibrant, almost neon blue with just a touch of natural green which carries with it the topics of the environment, clean energy and sustainability – a color which is certain to be met with enthusiasm in the electromobility sector. The exotic, turquoise blue is the result of the use of blue and green effect pigments.

Translated from the Spanish, **MIRANDA ALEGRE** means “joyful sight”: the creamy, mellow orange is the perfect balance of yellow and red, it bubbles over with light and energy – this impression of joie de vivre is sure to make a deliberate appearance in many households’ color worlds. The color lends warmth with mellow yellow pearlescent pigments, a second effect pigment creates a bronze tone which delights with a deep, metallic shimmer.

Whether in cosmetics, fashion or the automotive industry – black is always required: The trend color **BOHLD** which has been identified is a universal, deep black which is by no means negative or gloomy, but rather has an exciting,

bold and punchy effect. The use of various silver-white effect pigments creates an additional, sparkling dimension. The particle size of these pigments guarantees high visual impact – even at low concentrations – and ensures a stunning effect finish à la starry sky.



Interested in the colors of the future? You can already see sample sheets for these 2023/2024 trends at the upcoming K trade fair! The ROWA Masterbatch team looks forward to individual discussions at the trade fair booth or through other avenues and channels. ■

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New additives from ROWA Masterbatch improve mechanical properties MAKING THE (ALMOST) NEW FROM THE OLD – ADVANCES FOR RECYCLING



High quality in polymers is crucial in order to increase their recycling rate. The ROWA Masterbatch laboratories have long accepted this topic – the specialists in the laboratory are constantly working on finding solutions for how plastics can be optimized in order to make meaningful recycling possible. The use of recycled plastics has so far been limited by the compromised mechanical properties and processability as a result of polymer degradation.

An exciting new development from ROWA Masterbatch for PET now demonstrates how degradation or breakdown of the polymer chain can be counteracted: The active substance in this Masterbatch is a so-called chain extender. This “chain extender” reacts with the ends of the polycondensate chains. The polymer chains of the degraded polymer, with a low molecular weight, are combined with one another and form longer-chain polymers.

Studies have shown that the melt flow index (melt volume-flow rate, MVR) of degraded PET can be restored with a dosage of 5 % of ROWALID PET-A103A SP (see graphic). The impact strength of PET which is extruded

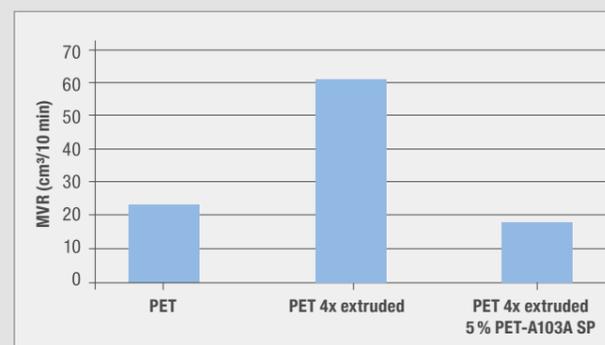
multiple times could also be almost doubled. The transparency of the PET is maintained here. This means that even high proportions of regranulate can be mixed with new PET without significantly worsening the physical properties.

Want to learn more about this topic? The team at ROWA Masterbatch would be delighted to hear from you! ■



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The MVR for virgin PET, PET which has been extruded four times and PET which has been extruded four times + 5% ROWALID PET-A103A SP: The MVR was significantly increased by extrusion four times, which indicates significant chain degradation. By adding 5% ROWALID PET-A103A SP, it was possible to attain the original MVR of virgin PET and therefore the processing quality once again.

Don't throw it away – It becomes art! ROWA MASTERBATCH EMPLOYEE MAKES WORKS OF ART FROM PLASTIC WASTE

Upcycling in a form that's particularly worth seeing: Alongside her career as Head of Quality Assurance at ROWA Masterbatch, Dr. Susann Neubert is a passionate artist and addresses socially relevant topics like marine pollution, obsession with beauty or sensory overload in a creative manner.

In her current works, which could be seen in an exhibition by the Frein art collective last summer, she used the colorful little injection molding plates made from PA, PBT, PMMA, PC, PE or PP which occur at ROWA Masterbatch as waste products in development and quality assurance. This has resulted, among others, in the work of art pictured here, “Bathtub – We swim in plastic”, for which Dr. Susann Neubert collected the little injection molding plates for two months and wanted to use them to draw attention to pollution of the environment and the responsible handling of plastic.

“ I wanted to stimulate debate with the ‘Bathtub’ installation – Is it really only industry which is to blame for pollution of the environment? Is it not rather us as humans? And doesn't politics need to work together more closely in order to ensure better waste recycling in other countries? ”, Dr. Neubert comments on her work.

Plastic is preceded by a poor reputation – An undeserved one in many respects. Because high-quality plastics that can be used for many years which result in CO₂ savings when used in the automotive industry, for example, or are absolutely necessary in a medical environment owing to their functions and properties are essential for our modern life. Correct handling and, above all, avoidance of short-lived plastic materials are of crucial importance, however – and here, as so often, each individual is asked to take responsibility. ■



UPCYCLING

GOLD FOLLOWS SILVER

In autumn 2020, this spot was occupied by a ROWA Masterbatch article titled “Award received. ECO-VADIS SILVER CERTIFICATE”.

The text concluded with this: “The EcoVadis rating provides a transparent record of success in the implementation of measures in the areas of environmental protection, compliance with labor and human rights, ethics and sustainable procurement. For ROWA Masterbatch the silver certificate is an incentive to further deepen the commitment to these values.”

Quod erat demonstrandum, as they say in Latin! In May this year, ROWA Masterbatch was awarded the gold certificate and was ranked by EcoVadis in the top 7 % of rated companies in the industry.

EcoVadis is an independent assessment platform that provides integral ratings in the area of corporate social responsibility and thus helps companies worldwide to optimize their environmental and social practices. ■



EXPANSION AT THE NORTH AMERICAN LOCATION

In order to support the worldwide customers of the ROWA GROUP in the best possible way, Rowa Inc., the USA location of the group, will be further expanded.

As early as 1986, the ROWA GROUP founded ROWA Inc. in New Jersey in order to be able to efficiently support American customers and to cultivate global customer and network relationships more intensively. From the beginning until 2009, ROWA Inc. provided support for the production and distribution of chemical foaming and blowing agents of TRAMACO (CFA/CBA). Beginning in 2010, support expanded to include specialty masterbatches and engineering plastics for ROMIRA.

The move to Pennsylvania in 2017 set the stage for additional production and sales support, including additional extrusion blending equipment and increased automation - the new facilities are scheduled for completion in early 2023:

“We have been in a continuous growth since our 2017 relocation; even with all the challenges associated during the pandemic we have experienced growth with our customers in Automotive, Agricultural, and Medical. The automotive production transfer from Europe for BMW & Daimler are advancing well, as is the medical material production we took over from a large producer

that discontinued the product line during the pandemic has warranted the plant automation and production lines expansion.”, noted Dave Baglia, President of Rowa Inc. USA.

“We are undergoing a rather interesting LED light diffusion project – a project we are doing in our R&D lab with support from Romira – this is another job that we are absorbing due to the project line being discontinued from a larger producer. We are excited about the current expansion and changes underway in the plant in terms of equipment, automation and technical staff – all things planned for supporting the goal of the Rowa Group’s vision to support our valued global customers and OEM’s. We believe 2023 moving forward will be exciting years for Rowa Inc.” said Baglia.

For more information on Rowa Inc. and how we can be of service please check out our web site rowainc.net or contact us directly.

We look forward to working together for the benefit of our customers. ■

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Sustainability:

TRACEL® FOAMING AGENTS FOR GREEN PLASTICS

Green plastics - based on renewable resources or featuring biodegradability – are attracting increasing interest. Reduction of carbon footprint or biodegradability under certain conditions are comprising to a product’s sustainability. Regarding processability and performance characteristics, these materials are potential alternatives to conventional plastics based on fossil raw materials.

An additional contribution to sustainability can be provided when the material usage is reduced by foaming. In Green Polymers, which are made from renewable monomers instead of the fossil-based ones (e.g. Bio-PE, Bio-PP etc.), conventional TRACEL® foaming agent systems can be used. If necessary, the carrier polymer might be adapted as well. Endothermic TRACEL® products are physiologically harmless and generally also suitable for food contact applications.

Other bioplastics, e.g. polyester-based, require adapted foaming agent systems, particularly special endothermic foaming agents. These are available on various bio-plastic carrier materials from TRAMACO. The new TRACEL® grades are suitable for injection molding and extrusion. Please contact TRAMACO’s application engineers for individual customer service. ■

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OCTOBER 19. - 26. 2022,
DÜSSELDORF, HALL 8A, STAND B28
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NOVEMBER 23. - 26. 2022,
ISTANBUL, HALL 8, STAND 825A
ROMIRA



MARCH 28. - 30. 2023,
NÜRNBERG
TRAMACO, ROWA Lack



MAY 09. - 11. 2023,
RHEDA-WIEDENRÜCK
ROMIRA, ROWA Masterbatch, ROWASOL



MAY 30. - JUNE 02. 2023,
BARCELONA
ROMIRA



JUNE 21. - 23. 2023,
MANNHEIM
ROMIRA



OCTOBER 17. - 21. 2023,
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For reasons of better readability, the masculine form is used for personal designations and personal nouns. Corresponding terms apply in principle to all genders for the purpose of equal treatment. The abbreviated form of language is for editorial reasons only and does not imply any valuation.

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