

ROWA news

NEWS FROM ROWA GROUP



Dear Business Associates,
dear Ladies and Gentlemen,

The K 2016 is the flagship show for the plastics industry and it's also the main topic of this issue of ROWAnews. In Hall 8a, ROWA GROUP's typically innovative booth (B28) will be offering some impressive examples of the close cooperation within our group. Come visit us and discover our bundled color expertise in the Color Competence Center at our booth.

TRAMACO, ROWA Masterbatch, ROMIRA and ROWASOL will also be showcasing their synergy skills: with our partner Vinylit we developed novel solutions for weatherproof, lightweight yet sturdy panels for the building façades of tomorrow. I'm very pleased to say we will be continuing to expand this partnership.

Ensuring our long-term success is another key issue for our day-to-day business: we need to be increasingly flexible to adapt to a complex and continuously changing world. Due to this, we have once again decided to make some important capital investments. At ROWASOL, a new foil inspection unit not only enables the early detection of foil defects but also permits conclusions to be drawn about color properties. To expand its capacities, ROWA Masterbatch has also bought a new system online, while in our Color Competence Center three new injection molding machines have been installed.

The past summer was marked by a number of special occasions and memorable events. To celebrate its 25th anniversary, ROMIRA organized a party with a personal touch for its employees and families. And TRAMACO also opened the doors at its new premises in Tornesch, where the first company units will be relocating in early 2017.

I hope you enjoy this issue and look forward to telling you more about our outstanding portfolio at the K show in Duesseldorf.

We hope to welcome plenty of new and familiar faces to our booth, and have some interesting discussions about the latest developments in the industry!

Best regards,
Kai Müller

ROWA GROUP

The house at its best



The façade of a home or office building should be striking and attractive, air-permeable yet insulated, durable and sustainable. Vinylit has made a major contribution to the façades of previous decades becoming a thing of the past.

No other manufacturer of curtain-type ventilated façade systems made from plastics offers such a wide variety of surface structures than the Kassel-based company. Vinylit offers everything from a single source: façade profiles, roof edge coverings, reveal systems and accessories required for installation.

Whether new construction or old buildings, Vinylit product solutions and systems give buildings a distinctive look. In designing the façade, the resources are plentiful: plaster surface structure, natural stone texture or wooden structure – the owner decides according to individual taste.

Vinylit has worked with the ROWA GROUP for many years as a supplier of premium materials. Innovative products are in great demand when it comes to building façades, because the plastic sheets should not only be durable but should also look natural. For example, closely joined, high quality profiles coated with natural granules from vinyTherm, give the impression of a classic plaster surface. Compared to plastered surfaces they provide all the benefits of curtain-type ventilated façades. VinyPlus profiles with different wooden structures give homes a noble character.

Whether full or partial covering, modern profiles create emphasis. They can be processed horizontally, vertically or diagonally. The type of installation and the broad color palette of the Vinylit series give every façade a distinctive appearance.

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ROWA GROUP

Façade profiles from Vinylit are very lightweight, extremely durable, weatherproof and corrosion-free, easy to clean and ecologically exemplary because they are free of contaminants thanks to the tailor-made base materials. Whether rain, condensation or building moisture curtain-type ventilated façade systems from Vinylit keep buildings dry and are heat and sound absorbing.

Regular painting of the façade is a thing of the past: dirt can be removed with a pressure washer; damaged profiles can be replaced even after many years.

The profiles respond flexibly and without cracking, even with fluctuating ambient temperatures. The façade specialist uses mainly recycled plastic granules or recyclable PVC in the manufacturing process.

The ROWA GROUP's development team and Vinylit work together to improve the products optimally and continuously; jointly optimizing both the stability and insulating properties of façade panels.

"Since our products are permanently exposed to the weather,

we have a very high demand on the quality of the materials we use. Therefore, we have clearly opted for this supplier and have been very satisfied for years", explains Mirco Böken, Head of Technology at Vinylit.

"When selecting our suppliers we are concerned not only for the product. The care, flexibility, service and especially the variety of products are more important to us for an optimal cooperation. With the ROWA GROUP we found a qualified partner that combines all these points."

Vinylit and ROWA GROUP: An innovative product developed together

Attractive and custom-made plastic façade systems are a cost-effective solution for permanently covering exterior house walls, garages, garden houses and old or new buildings.

Vinylit, a German manufacturer of façade systems, and ROWA GROUP developed a new plastic system for exterior façades in dark colors. Vinylit assembled a unique product with innovations from ROMIRA, ROWA Masterbatch, ROWASOL and TRAMACO. VinyTop façades in wood grain and with excellent weathering resistance are available in dark colors with a silky matt surface for the first time this year.

The outer layers of the profiles are extruded from the super matt material Rotec ASA E 310/11. This development by ROMIRA improves weather resistance of PVC and ABS many times over. A thin co-extruded layer of material protects the parts against UV rays and significantly increases the service life of the panels.



The outer layers are colored with light and weather resistant ROWALID® color masterbatches from ROWA Masterbatch. This gives the façade a noble and natural character, thus an authentic wood look. In combination with the co-extruded layer of Rotec ASA E 310/11, it also further improves its stability in all weather conditions.

The underlying supporting structure is foamed with TRACEL propellant TRAMACO to achieve a low weight per unit area. This ensures a high stability and at the same time a low weight. Due to the lightweight material vinyTop façades are ideal for installation on hard to reach areas and areas where heavy façades cannot be held in place for the long term because of their stability.

The frame structure is colored by ROWASOL liquid colors, specifically designed for use in rigid PVC. The optimally dispersed colorants are evenly distributed in the material, thus allowing a uniform coloration of profiles at a very low dosage below one percent.

A joint project worth repeating: Vinylit is very pleased with the results of the close cooperation. Both companies work extremely well together. It is planned to develop another façade system with ROWA GROUP products.

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ROWASOL

Change of management at ROWASOL



A new head at the top: after around two and a half years as Division Manager at ROWASOL, **Udo Wilkens** has now assumed overall responsibility for the company, effective August 1, 2016. He succeeds Udo Müller as Managing Director, who incorporated ROWASOL into the ROWA GROUP in 2004 and will now concentrate on his role as shareholder with immediate effect. Being a graduate chemical engineer, Mr Wilkens worked as a development engineer at a Hamburg-based compounder and at ROMIRA GmbH prior to joining ROWASOL as Division Manager. Previously, he worked as a project engineer for the prestigious "Institut für Kunststoffverarbeitung" (IKV) at RWTH Aachen University.

He succeeds Udo Müller as Managing Director, who incorporated ROWASOL into the ROWA GROUP in 2004 and will now concentrate on his role as shareholder with immediate effect. Being a graduate chemical engineer, Mr Wilkens worked as a development engineer at a Hamburg-based compounder and at ROMIRA GmbH prior to joining ROWASOL as Division Manager. Previously, he worked as a project engineer for the prestigious "Institut für Kunststoffverarbeitung" (IKV) at RWTH Aachen University.

Put under the microscope: liquid colorants in films



New film inspection unit for more precise analysis.

Applied Polymer Science M.Sc. student Hendrik Hesse is currently researching the usage spectrum for liquid colorants in film applications for his final-year thesis at ROWASOL. His investigations are focusing on the influence of the liquid carrier medium on the processing and product qualities of a range of plastics, such as PE, PP, PS, PET and PLA. The results will be presented to an interested audience at the K 2016 in Duesseldorf.

The corresponding films will be manufactured on a newly acquired laboratory flat film plant at ROWA Masterbatch, and then evaluated in terms of their mechanical properties and visual appearance. For the last mentioned, ROWASOL has acquired a film inspection unit from R.A.M. GmbH (Flörsheim, Germany) that enables it to perform film defect analysis according to DIN EN 13900-6. The unit's outstanding resolution of 5 µm/px means, it can detect effects that are invisible to the human eye and draw more comprehensive conclusions about the suitability of the colorant within the various polymers.

The colorants in the liquid colors from ROWASOL are perfectly dispersed, which enables coloring entirely free from streaks and specks. This makes the products especially well-suited for transparent and translucent applications such as films.

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Feels like leather and defies the sun



Scratches and scrapes or by the sun discolored parts can make caravans unsightly very quickly – putting a damper on the feel-good factor. The newly developed Rotec ASA E 640 from ROMIRA offers good UV resistance and protects against scratches. The material is also pleasantly soft to the touch and has a matt surface that feels like leather. The structure of the material also imitates leather to further strengthen the illusion.

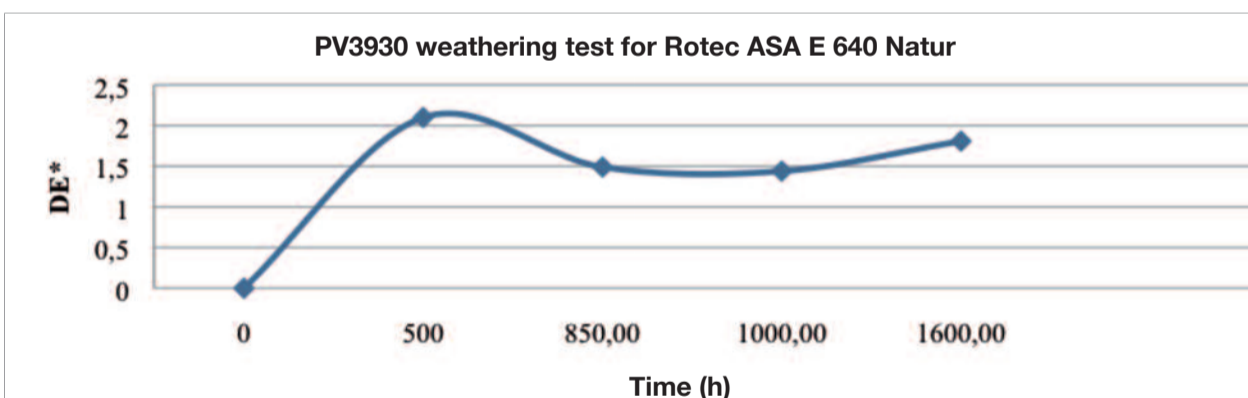
The outstanding UV resistance is another feature that ROMIRA has confirmed by a series of weathering tests. The diagram below shows the results of one of these. The material is especially suitable for customers in the co-extrusion segment. It can be

easily worked and ensures outstanding results with bonding using a 2K method.

Rotec ASA E 640 has already been approved by caravan manufacturers and is now being used in their vehicles. These innovative products have already been used by leading providers of caravan interior furnishings. Leaving mobile home owners relax in comfort without having to worry about scratches and discolorations.

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Test procedure/conditions:

Radiation: 0.51 W/m², measured at a wavelength of 340 nm
Day light filter B/B
Black standard temperature: 65 °C
Temperature in the chamber: 40 °C
Humidity during the dry phase: 70 %
Cycle: Light exposure/light exposure and spraying – 102 min/18 min

Properties	Unit of measurement	Test method	Test conditions	Value
Tensile strength	MPa	DIN EN ISO 527	23 °C 50 mm/min	9,5
Elongation at break	%	DIN EN ISO 527	23 °C 50 mm/min	115
Shore hardness D	-	ISO 868	30 s	49
Density	g/cm ³	DIN EN ISO 1183	23 °C, 50 % RH	1,08
Melt mass flow rate MFR	g/10 min	DIN EN ISO 1133	200 °C, 5 kg	14

Technical data for Rotec ASA E 640

Fit for the future

Colorful products should stir curiosity and emotions. The development of future-proof products has nothing to do with simple coloring, but everything with maximum functionality. The demands of the future are relevant: laser marking, UV application or effect coloring on plastics – an alternative to exterior paint. Surfaces of plastic parts should remain unchanged and should not be influenced by coloration.



ROMIRA invested in state of the art injection molding machines in its Color Competence Center (CCC) – two of the three new acquisitions were put into operation on July 21, 2016 in Pinneberg. This was an important step for the entire ROWA GROUP. The new injection molding cassette system, which processes all relevant surface structures and fulfills the highest quality requirements, will continue to perfect the processing in the future.

An additional 200 tons of injection molding machine is already on order, expanding the mechanical equipment. With the latest variotherm technology, ROMIRA will be in a position to implement individual requirements as well as customer developments – even developments with customer tools are possible. Compound and color are viewed by ROMIRA's employees as one development unit.

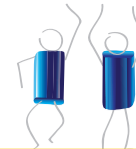
Additionally, the CCC team has expanded with another new injection molding expert. The focus of his future activities consists of constant monitoring and optimization of work processes thereby relying on his expertise. Ongoing employee training takes place in regular, short intervals.

To continue to stay on top of the international market, the unique showroom with its "industrial style" will offer a wide range of color variations.

The CCC has taken steps to provide a good balance between requested functionality and color targets. Whether glossy surfaces for painted exteriors, matt surface structures with a pleasant feel or anti-squeak materials, the ROMIRA CCC offers a wide range of colorful design options. Interested customers have the opportunity to actively participate in the color design with the help of the Color Competence Center. Trained and creative colorists are standing by with help and advice.

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Functionality meets performance

ROMIRA is well known in the automotive industry as a competent partner for technical thermoplastics offering efficient, application-specific material solutions. Depending on customer requirements the company provides tailor made products which do not only meet the technical requirements of automotive industry standards, emission levels and light fastness, but also provide functional aspects.

This is in particular true for the special ROMILOY® blends based on styrene copolymers and polyamide (ASA/PA, ABS/PA), which Audi is using for interior parts of various models since many years. The ability to reach a painted like surface look even with grain surfaces as well as the balance of technical properties and good chemical resistance also convinced Daimler and recently BMW. Both companies approved ROMILOY® ASA/PA and ABS/PA blends for their models, too.

BMW

ROMILOY® 3020/07
ROMILOY® 3020/01-4 M10
ROMILOY® 4010/07-1 UV
ROMILOY® 4010/07 M08

Daimler

ROMILOY® 3020/11

ROMILOY® ASA/PA applications include covers for instrument panels, pillar panels, seat belt guides and ISOFIX child seat holders. Very high standards are placed on the material especially concerning belt guides with its complex part geometry and the high safety aspects. In addition to the increased toughness, an outstanding dynamic capacity must be ensured. The ROMILOY® 3020/11 ASA/PA blend



ROMILOY® ASA/PA is also very suitable for the complex part geometry of belt guides.

which is already part of the series meets all these requirements and is one of the most suitable materials for this type of application.

Other products in the series have been used for many years for the interior mirror housing such as PC/ASA blend ROMILOY® 6030/04 UV and the newly released BMW PC/ABS blend ROMILOY® 1035/09 UV. Both offer an appealing look and better dimensional stability.

Permanent antistatic properties are another special feature of ROMIRA in the area of polycarbonate blends for interior application in the roof area. With these materials, dark dust layers that adhere to elec-

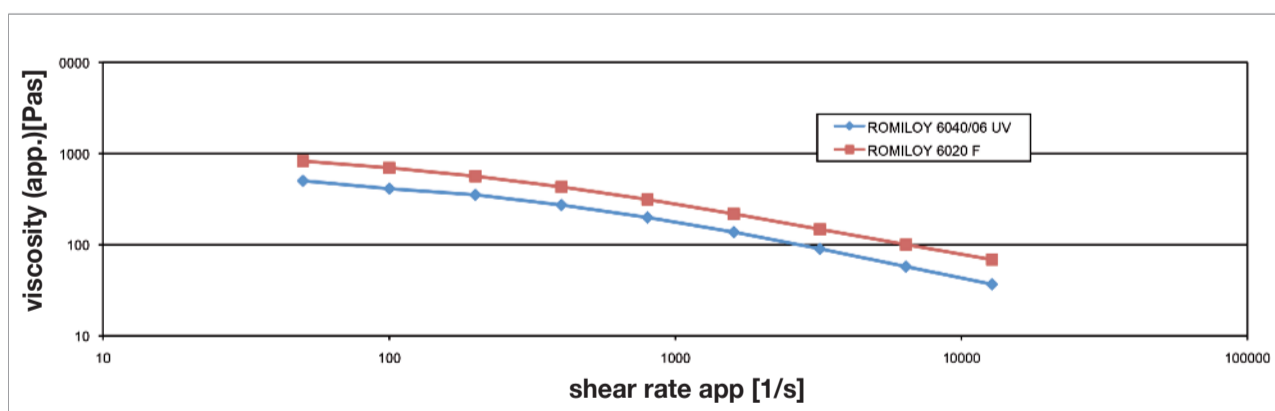
trostatically charged plastic parts, don't stand any chance. Antistatic properties begin to work immediately after molding and are maintained throughout the life of the automobile.

The development of these materials proved to be a great challenge for ROMIRA's research team. A standard PC/ASA blend, although having a surface resistance from 10^{15} to $10^{16} \Omega$ is inherently non-conductive, for example parts made from it build an electric charge due to friction – dust sticks to the surface. Modification with common antistatic additives does not necessarily lead to the desired effect. The effect does not immediately occur after injection molding and has a limited lifespan.

After a series of developments the PC/ASA blend ROMILOY® 6040/06 UV has established itself as the type that has permanent antistatic properties with low surface resistance from 10^{10} to $10^{11} \Omega$ as well immediately after molding. Additionally, due to its very good flow behavior excellent processability of the injection molding process can be ensured. ROMILOY® 6040/06 UV has a low viscosity compared to the flow-enhanced PC/ASA ROMILOY® 6020 F (see diagram), so that the material is suitable for use also in large parts such as the center console in the car roof.

ROMIRA will face new challenges in the future and will continue to develop materials for specialized applications according to customer requirements. That is why direct contact at trade fairs is so important. It is not only an opportunity to introduce one's own innovations but also to obtain ideas and suggestions for further developments.

Once again, like the last year, ROMIRA inspired the international audience at the Automotive Interiors exhibition EXPO 2016 in Stuttgart. This year the attendance was quite higher and many new contacts in particular to international automobile manufacturer and subcontractors were made at this event.



Viscosity in dependence on the shear rate at 240 °C of ROMILOY® 6040/06 UV permanent antistatic compared to standard PC/ASA-Blend ROMILOY® 6020 F with improved flow behavior.

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Tramaco invests in the future

To be able to cope with the continuously increasing demand for foaming and nucleating agents as well as additive masterbatches and to be well positioned for the future, Tramaco invests in a new production site. Tramaco has been able to purchase a new building in the vicinity of the current location, which offers optimal conditions to cope with future challenges. The conversion works will start in short term with the aim of relocating production sectors in 2017.

After completion of the conversion works, Tramaco will have significantly expanded possibilities for research, production, quality management, storage capacities and the commercial sector.

The setup of the new location and the increase in production capacities by additional machines at the same time will create the precondition for further growth and a future oriented development of the company.



New Plant in operation in record time

In early March 2016, ROWA Masterbatch GmbH solemnly inaugurated their new production plant which enabled the company to increase their production capacity significantly. Particularly remarkable: Thanks to the untiring commitment of the involved



In early March, ROWA Masterbatch solemnly inaugurated their new production plant which increases the production capacity significantly.

project team headed by Mr Wulf Hagemeyer, the assembly of the plant merely took eight weeks and already in mid-February the machinery could be put into operation.



In his opening speech Mr Bernhard Scheffold, CEO of ROWA Masterbatch, expressed his gratitude to the shareholders for placing their trust and granting the associated investments reaching the upper six-figure range. This investment marks an essential contribution for the further development of the company.

The new plant is based on a flexible manufacturing concept allowing multipurpose application. As a result, ROWA Masterbatch now is in the position to supply polymer specific ROWALID® color, additive and multifunctional masterbatches within a short period of time.

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Flame retardants – safety as standard!

ROWA Masterbatch has included UL-certified products in its portfolio for many years now. The list now includes one group of PBT types and four groups of TPU types.

These are used in cables, connectors and housings, where safety is obviously a top priority: the specified certificate guarantees flame retardation and acts as a quality label for electrical appliances.

UL – the abbreviation for Underwriters Laboratories – is an independent American organization that is involved in the testing of the mechanical and electrical properties of products and materials. The most important standard for plastics and plastic products is “UL94”. Combustion properties are certified according to this established, industry-wide standard.

The advantages offered by UL include close integration with industry and the comprehensive support offered for standards development – such as testing standards. In the USA and Canada, the UL label has become a must-have certification – the distribution of



electronic appliances is now virtually impossible without it.

A distinction is made between two testing methods:

- **Horizontal Burning (HB)**
- **Vertical Burning (V)**

Both tests measure how long test specimens continue to burn after exposure to a flame under defined conditions. The specimen is oriented horizontally in HB testing and vertically in V testing. In V testing, the specimen’s drip behavior is also evaluated.

The UL masterbatches from ROWA Masterbatch are certified in the category QMQS2. Coloration requirements from customers can naturally be accommodated in full, since nearly all of the ROWALID®-UL masterbatches have “all-color” certification.

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Product Group Designation	Material Designation	Color	Thickness in mm	Max. Letdown Ratio	Flame Class	Selection of Products
ROWALID® TPU913-(b)	All recognized TPU	all	0,90	1:33	HB	
ROWALID® PBT910-(b)	Arnite T06 200 SNF(h)	all	0,75	1:33	V-0	ROWALID® PBT910-63597 UL BLUE ROWALID® PBT910-63110 UL LIGHT BLUE ROWALID® PBT910-63246 UL GENTIAN BLUE ROWALID® PBT910-63247 UL AZURE
		white	0,75	1:17	V-0	
ROWALID® TPU910-(b)	Elastollan 1154 D(a) FHF 000	all	0,75	1:20	V-2	ROWALID® TPU910-23312 UL RED ROWALID® TPU910-19215 UL BLACK' ROWALID® TPU910-19492 UL BLACK ROWALID® TPU910-51893 UL GREEN ROWALID® TPU910-19216 UL LIGHT GRAY
		all	3,00	1:20	V-0	
ROWALID® TPU911-(b)	Elastollan 1185 A(a) W 000	all	1,50	1:33	V-2	ROWALID® TPU911-63596 UL BLUE
ROWALID® TPU912-(b)	Elastollan 1185 A(a) FHF 000	all	0,75	1:20	V-0	ROWALID® TPU912-19218 UL BLACK ROWALID® TPU912-23337 UL RED ROWALID® TPU912-32365 UL YELLOW ROWALID® TPU912-51894 UL GREEN ROWALID® TPU912-19219 UL LIGHT GRAY

UL File: QMQS2.E228627

All products are produced as pellets

(b) - four or five digit number denoting color

(a), (h) - detailed designation of base material (e. g. lubricant)

1) colorants in this masterbatch are in compliance with: FDA 21 CFR 178.3297: INDIRECT FOOD ADDITIVES: ADJUVANTS, PRODUCTION AIDS AND SANITIZERS - Colorants for polymers

No more product recalls – making it safe with magnetic plastics



Large-scale product recalls are the worst-case scenario for any company. If you need to warn your customers about dangerous particles of plastic in food products, your reputation can suffer severely – as has been demonstrated by recent cases involving chocolate bars and frozen food. Often, consumer protection authorities post warnings about these barely visible hazards on portals such as www.lebensmittelwarnung.de. But what steps can be taken to ensure that parts which break off during the production process and end up in manufactured products do not remain undetected? ROWA Masterbatch has the solution: a specialized additive masterbatch that can be mixed into plastics and is detectable using magnets: **ROWALID®-MD!**

lines remain unchanged and can continue to be used.

Masterbatches of the ROWALID®-MD type can also be colored, to increase the probability that fragments are detected by visual inspection. Blue coloration is often requested – a color that is typically not found in food. Complementing the magnetically detectable ROWALID-MD®, ROWA Masterbatch also offers ROWALID-XR®, which is a masterbatch that can be detected by x-rays. Coloration is possible here, too.

Like all products from ROWA Masterbatch, ROWALID®-MD and ROWALID®-XR can also be modified to suit individual customer requirements. Virtually any thermoplastic can be equipped.

With the help of specialized metal detectors, this enables early detection of plastic pieces that fall into the product, before it is actually sold to the consumer.

Unfortunately even ROWALID®-MD and ROWALID®-XR are unable to prevent plastic parts breaking off from production belts or cutting instruments during manufacturing. But they can provide an easier detection and thus increase safety.

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Magnetical, practical, safe: detectable plastics.

ROWA Inc. Technology Center Update

ROWA Inc. began moving into the new Technology Center in Croydon, Pennsylvania (PA) in late April. The move is expected to be fully completed by the end of 2016. The concept and expansion into the new Technology Center is driven by a focus on and support for worldwide customer requirements and overall growth of the North and Central American markets. ROWA Inc. currently supports production and distribution of ROWA GROUP divisions Tramaco, ROWA Masterbatch and Romira product lines. The new center will house expanded compoun-



ding/graft manufacturing with new and expanded Color Technology, Mechanical, Analytical and Weathering laboratories.

“We are excited to complete the move and utilize the new equipment to its fullest. The Technology Center will have state of the art manufacturing and polymer laboratories for production and product design capabilities. We take environmental aspects seriously and have planned the center to be energy efficient

through the use of VFD's on all equipment and LED lighting throughout the complex. We are glad to be in PA with the workforce availability, local universities, close proximity to major highways and airports and the overall business climate”, commented Dave Baglia, ROWA Inc. CEO.

Look for more information on the new ROWA Inc. Technology Center in the next ROWAnews issue in the spring of 2017.

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ROWA Lack: specialized needs, specialized solutions

As a member of the ROWA GROUP, ROWA Lack will naturally also be attending K 2016. The leading manufacturer of special lacquers for the coatings and plastics industries will be presenting its innovative new products at the fair, and offering insights into its extensive portfolio. Well in advance of the fair itself, ROWAnews can offer a preview of some of the most exciting innovations.

Synthetic leather for automotive interior, upholstered furniture and apparel products

Creating innovations: in developing new water-based lacquer systems for soft PVC web material, one area ROWA Lack has focused on is synthetic leather. Due to the huge variety of highly specific requirements, different end products which are to be coated with the newly developed deep-matt 2K lacquer systems need to be distinguished here. While the most challenging requirements in all of the product groups mentioned above can definitely be found in the automotive interior segment, a number of properties – such as extreme resistance to heat yellowing or outstanding UV stability – are negligible in the case of synthetic leather for upholstered furniture and apparel products.



Varied and demanding: High-quality lacquers for synthetic leather.

In order to meet all the customer requirements, a wide range of different lacquer systems is available. The main differences between these lacquers are their base polymers and the used matting agents, since these raw materials not only determine the desired properties of the lacquer but also its price. Therefore, the product portfolio ranges from lacquers which are only suitable as primers, through products offering a good price/performance ratio to top coats developed for the premium market.

The crosslinker chemistry is the same for all lacquers: to ensure an adequate pot life – and thus a uniform level of resistance of the end product to chemicals and foodstuff during the whole processing time – polycarbodiimides are used instead of isocyanates.

Thanks to the outstanding transparency of the dry lacquer films, the new products are suitable for dark colors such as dark brown and black, as well as bright colors such as beige and light gray.

Furniture and decorative films

With the ROWADEKOR® product family, ROWA Lack has offered its customers high-quality, solvent-based lacquers for furniture and decorative films for some time now. These 2K lacquers are cross-linked with polyisocyanates. They are quick-drying, mar- and scratch-resistant, abrasion-resistant and available in either gloss or matt variants. Some ROWADEKOR® lacquers have also been optimized in terms of soiling

resistance according to the furniture standard DIN 68861-1:2011-01, part 1B. Furthermore, the products contain no solvents from the SVHC Candidate List, and therefore already represent the next generation of solvent-based lacquers. The latest developments in the ROWADEKOR® range also offer UV stabilization in addition to the properties already mentioned. This makes them suitable for the coating of decorative films used on windowsills, for example.

Functional coatings

The ROWA Lack portfolio also offers new products in the field of functional coatings. As one example, our developers have managed to achieve significant optimizations to the visual and haptic properties of antistatic lacquers. Conventional products typically exhibit a matt and very dull surface. The lacquer films are also opaque, and give brightly colored tarpaulins a slightly yellowed or greenish appearance. With the new, water-based lacquers from ROWA, glossy surfaces can be achieved that also result in a surface which is only slightly darker or more grayish than usual. Surface resistances in the range of $10^6 \Omega$ can easily be achieved.

With a firm focus on certification in the field of environmental and energy management according to DIN EN ISO 14001:2004 and DIN EN ISO 50001:2011, ROWA Lack has also developed new products for the thermal regulation of halls and tents. One option is to coat an infrared-reflecting lacquer onto the exterior surface of these objects. This ensures that the temperature inside the construction increases slower, compared to conventional coatings. Therefore, any cooling systems used require less energy to be operated. Another option is the use of low-e lacquers for the coating of the inner surface of the respective structures. With a diffuse infrared reflection of about 70 percent and an emissivity value of less than 0.3 the heat is kept inside the construction, ensuring that less energy is required for climate control.

Interested people can contact the ROWA Lack experts directly – or visit ROWA at K 2016 (Hall 8a, Booth B28). This opportunity is of course not only used to present the above mentioned product groups but also the latest developments in the fields of PVC tarpaulins, textile constructions and print media.

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Show your colors – ROWALID® PVC new types of red pigment preparations



With the target group specific assortment of ROWALID® PVC pigment preparations, ROWA Lack continues to expand its product line. The focus of the development was on orange and red pigments complementing the current range.

ROWALID® products are highly concentrated, single pigment substances integrated in a PVC-support system. ROWALID® PVC preparations are produced using a special production process, pursued with a maximum degree of dispersion of the desired pigments which cannot be achieved with conventional dispersion methods.

In an economic environment which is increasingly complex and requires very different approaches, the easy handling of the products appear to be a particular advantage. The product's "micro-powder" delivery form in a defined particle size range not only allows a large tolerance range, but the highly concentrated pigment dispersion also guarantees high color strength and transparency. Costly dispersing is not necessary to prevent the formation of lumps in achieving the maximum color strength compared to pure pigments: ROWALID® preparations make it easy to color products.

ROWA Lack, with ROWALID® PVC pigment preparations, offers a standard range of colors with outstanding characteristics that speak for themselves. Together with the customers, and based on their requirements, ROWA Lack also develops project specific special formulations. Pigment types or pigment content is considered.

ROWALID® PVC pigment preparations		
Product name	Color Index	Content of pigments
ROWALID® PPR 4787	Orange 38	50 %
ROWALID® PPR 4788	Red 208	50 %
ROWALID® PPR 4802	Red 254	50 %
ROWALID® PPR 4803	Red 149	50 %

More information

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Invitation to K 2016: All of ROWA GROUP in attendance

When the global players of the plastics industry meet up at K 2016, the ROWA GROUP must of course make a point of attending.

All of the group companies are represented with a joint booth in Duesseldorf from 19 to 26 October – and you are of course warmly invited to join us!



You will find your contacts from ROMIRA, TRAMACO, ROWA Lack, ROWA Masterbatch and ROWASOL in Hall 8a, Booth B28. The team is looking forward to interesting talks with plenty of visitors. Be the first to know! We will see you at the K!

The ROWA GROUP at trade fairs 2016/17



K 2016
Booth No. 8a/B28
ROWA GROUP
Duesseldorf
19-26 October 2016



International VDI Congress: "Plastics in Automotive Engineering"
ROMIRA, ROWA Masterbatch
29-30 March 2017



European Coatings Show 2017
ROWA Lack, TRAMACO
Nuernberg
04-06 April 2017



Techttextil
Hall 3, Level 0, Booth F53
ROWA Lack, TRAMACO
Frankfurt
09-12 May 2017



Automotive Interiors Expo
Booth No. A5208
ROMIRA
Stuttgart
20-22 June 2017

Why not take these opportunities to meet the ROWA GROUP at trade fairs this year and get the latest news on our products.

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Racing ahead with the ROWA GROUP!



On June 12, 2016, Hamburg played host to the 17th City Park Triathlon, sponsored by the ever-popular St. Pauli soccer club. A total of 1,150 entrants swam, cycled and ran in some truly glorious competitive weather. Always keen to take part, ROWA GROUP also fielded five mixed relay teams and two individual competitors for this sporting contest. The three separate triathlon courses involved 500 m swimming,

20 km cycling and 5 km running. Hannelore Bittner managed a sensational first placing in her class (SEN 4) and was cheered on by her appropriately enthusiastic colleagues. The relay teams also recorded some outstanding times – even despite short-term substitutions for two injured athletes. All in all, the event was a great success, and also for a good cause: one euro from the registration fee per entrant was donated to a charitable organisation.



25 years of innovation and solidarity

In March 1991, the formation of ROMIRA GmbH was officially confirmed with its entry in the Commercial and Companies' Register. During the last 25 years, the company has developed itself into a specialist for engineering plastics and became an indispensable member of the high-performance ROWA GROUP community. Thanks to the innovative developments from its in-house R&D unit, ROMIRA is now setting standards in the field of engineering plastics.

This important milestone was of course appropriately celebrated: with an informal anniversary party on July 16, 2016 for employees as well as their partners and children. The company executive expressed its heartfelt thanks to all of those who have given many years of support and commitment to the company. Thanks to the delicious street food and a lively program of music

and dance, the atmosphere was appropriately relaxed, and the employees' team spirit was very noticeable. A wonderful event and a complete success for all concerned!



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