

COLOR COMPETENCE CENTER

_____ RESEARCH & DEVELOPMENT _____

♦ THE MAGAZINE ♦ SPECIAL EDITION ♦ THE CCC+ INTRODUCES ITSELF ♦ ROWA GROUP 2019



THE BEST FROM ALL AREAS

In the COLOR COMPETENCE CENTER, the color experts of the ROWA GROUP produce precisely tailored, finished colored plastics, masterbatches, liquid colors and finely dispersed pigment preparations.

Page 03



CCC+ INTERN

Get a clear impression of our workflow at CCC+. From customer requests to approved sample – in the most modern working environment our color experts flexibly develop and create your optimal product solution.

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TAILOR-MADE PRODUCT SOLUTIONS

Learn more about our collective expertise in the COLOR COMPETENCE CENTER

ROMIRA ENGINEERING PLASTICS

ROMIRA COLOR

Since 1991 ROMIRA has specialized in the development and production of engineering plastics and blends.

As one of the leading compounders in Europe,
ROMIRA develops customer specific products with precisely fitting properties and perfect colors for applications in the automotive industry, electrical engineering, construction, medical technology and many other sectors.

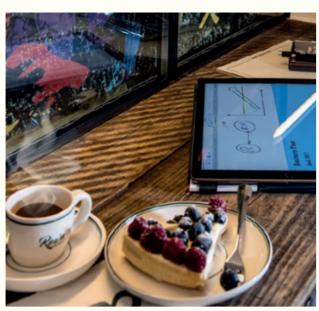


ROWA COMMASTERBATCH OVER 40 YEARS RELIABLE PARTNER

ROWA Masterbatch has been a reliable partner to the plastics processing industry for over 40 years.

Polymer-specific masterbatches for almost all thermoplastics, reinforced plastics and polymer blends are produced in granular form. The product range includes color concentrates, additive concentrates, combination masterbatches and special compounds. Each masterbatch is developed individually according to customer requirements. With the most modern color measuring equipment, sophisticated formulation software and a team of specialists, color accuracy with the smallest tolerances can be guaranteed.





ROWALACK **◆**PIGMENT PREPARATIONS SINCE 1970

For decades, ROWA Lack has specialized in the development of special coating systems and pigment preparations for a wide variety of applications. The highly concentrated and finely dispersed pigment preparations allow a maximum degree of distribution, have a large compatibility spectrum as well as high transparency and color strength and are particularly suitable for use in PVC and PMMA. The properties such as heat resistance, migration, light-resistance and solvent-resistance are determined by the pigment used. A fully coordinated stabilization of the respective plastic carrier material guarantees that the pigment properties are fully preserved.









ROWASOL

THE SMART ALTERNATIVE

ROWASOL has been the specialist for high-quality liquid colors and additive concentrates for plastic coloring since 2004. The product portfolio is complemented by the ROWAMETRIC dispensing system for fast and clean color changes and the ROWASOL COLOR CUBE reusable container for resource efficient product handling. In both extrusion and injection molding, the use of liquid colors saves on color costs and on the production process in general.



THE BEST FROM ALL AREAS

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In the COLOR COMPETENCE CENTER, the color experts of the ROWA GROUP produce finished colored plastics (ROMIRA), masterbatches in granular form (ROWA Masterbatch), liquid colors (ROWASOL) and finely dispersed pigment preparations (ROWA Lack) that are tailored to customer requirements. Expertise, the most modern equipment, close cooperation with the customer and, last but not least, an optimal workflow guarantees the best results. In Pinneberg, the ROWA GROUP has invested in a manufacturing facility with state-of-the-art injection molding machines, which can be expanded further as required. Five new injection molding machines were recently put into operation. All relevant surface structures can be produced here with a new injection molding cassette system for the highest quality demands, also combined with the latest Variotherm technology.

- High-gloss surfaces without subsequent varnishing
- Increased surface gloss

- Avoidance of weld lines to reduce rejects - Filled products with high gloss surfaces and much more!

Precise process documentation, production monitoring and optimization by the Arburg computer system (ALS) contribute to increased productivity and quality assurance.





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01 CUSTOMER REQUEST

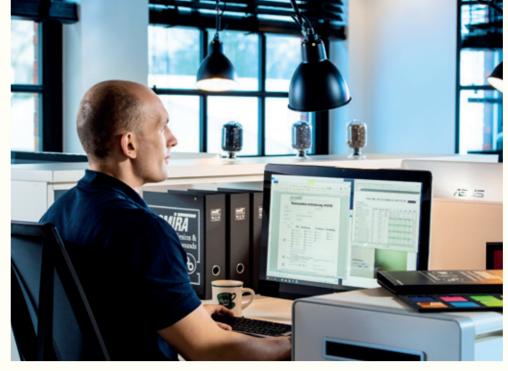


The customer's new colour request is processed by our internal sales department. Following this, a laboratory order will be placed, in consultation with the customer and field services.



The customer sample is inspected visually, and the feasibility of the desired requirements will be investigated.





PLANNING COLOR ADJUSTMENT
The raw materials required to achieve the desired color are ordered and a date is set for completion of the color match.

The WAY to WORK



04 IMPLEMENTING THE COLOR ADJUSTMENT



Sample plates of the new color are produced in our laboratory and our colorist, who is responsible for the color development, makes an initial assessment of the color.

05 ASSESSING COLOR SAMPLE PLATES

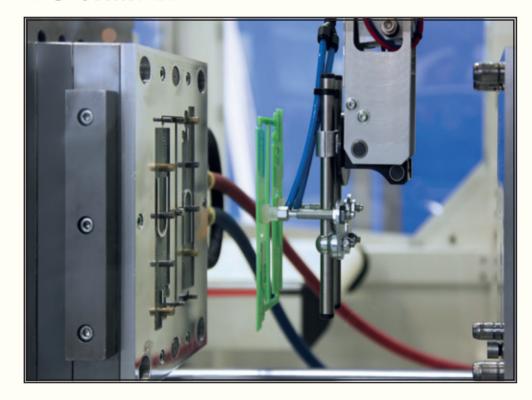


The color is assessed both visually and using state-of-the-art measurement technologies including a Konica Minolta spectrophotometer. If the customer wishes, we are happy to evaluate the results with them in conjunction with our COLOR COMPETENCE CENTER. This gives us the possibility of a direct exchange of views on fine tuning, with immediate modifications if necessary.

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08 SAMPLE



The sample is tested by the customer for suitability in their process and is approved.



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COLOR COMPETENCE CENTER

RESEARCH & DEVELOPMENT _____

BRINGING EXPERTISE TO THE FOLD

THE CCC+ DEVELOPS AND SUPPLIES COLORS ACCORDING TO INDIVIDUAL CUSTOMER REQUIREMENTS

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With the CCC+, the ROWA GROUP offers its customers the best possible service and fulfils even the most demanding requirements for a product. All products can be flexibly adapted - thanks to company specific know-how.

As a result, customers can rest assured that they are getting a product that is perfect for their manufacturing process and end use application, with the confidence of optimized color, consistency and reproducibility. Various color systems are available, such as RAL, NCS and Pantone. Thanks to the most modern data communication, customers can obtain a color adjustment with electronic targets without the need for a visual template. This can enable a much faster workflow from

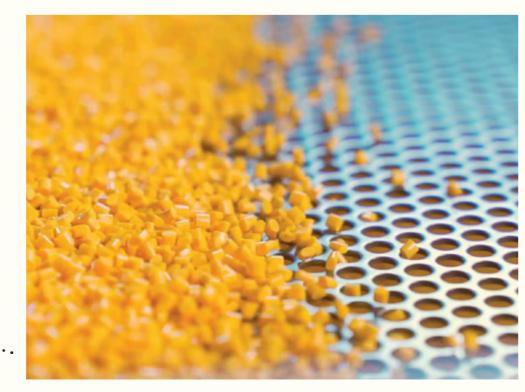
initial color standard setting to completion of a tailor-made color concentrate or compound.

On the basis of the exemplary procedure at ROMIRA GmbH shown here, you can see what technical demands and high quality requirements we place on the color matching of your material.

This information can now also be found online on the specially set up website:



07 PRODUCTION SAMPLE



As soon as the formulation development has been completed, a sample quantity is produced for customer evaluation.



06 TESTING
The next sten is to the

The next step is to test the mechanical properties of the material according to product and / or customer requirements using the latest testing equipment in accordance with current standards. This includes the melt flow index, tensile and flexural strength, impact strength, heat deflection temperature and weathering tests.

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