**MEDIA BACKGROUNDER**

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**BOBST at K 2022: Partnerships making innovation possible**

The oneBARRIER solutions on show at K 2022 speak to the power of partnerships. The success of oneBARRIER has required all the experts in the different fields to come together and bring their expertise to the table. Similarly, elements of the One complete solution – on show at the Open House at Bobst Bielefeld – are made possible through vital partnerships.

Below is a summary of all the partners involved in each project.

**Partners involved in oneBARRIER PrimeCycle**

**Dow Packaging and Specialty Plastics** is one of the world’s largest producers of polyethylene resins, deliver high performing technologies for end use markets.   
The company’s role in the oneBARRIER PrimeCycle project was to identify the right resins and recommend film structures to enable a package designed for recyclability.

**Zermatt** has been manufacturing flexible packaging since 1970 and is known for its innovation, excellence, flexibility and tailor-made solutions.  
In the PrimeCycle project, Zermatt’s task was to create a structure of mono PE film that would not only retain its high efficiency in the extruder machine but also in the subsequent production steps.

**Michelman** is well-known as an expert in the development of barrier and functional coatings, as well as digital printing-press primers and OPVs (overprint varnishes) that are used in the production of consumer and industrial packaging, paper products, labels, and commercially printed materials.

Michelman developed a special coating system for the PrimeCycle project, including a multifunctional primer, a range of heat seal coatings and an OPV.

**Sun Chemical** is a leading supplier of inks, coatings, and adhesives. The company is working continuously to develop sustainable solutions.   
With reference to the oneBARRIER PrimeCycle project, Sun Chemical’s role was to develop an adhesive, to laminate multiple film layers into a mono-material structure and serve as an oxygen barrier. The company also collaborated for the supply of coating primers and inks.

**BOBST** is one of the world’s leading suppliers of substrate processing, printing and converting equipment and services for the label, flexible packaging, folding carton and corrugated board industries.

For the oneBARRIER PrimeCycle project, we contributed our two well-established vacuum metallizing deposition processes (transparent AlOx or opaque AluBond (on EXPERT K5 vacuum metallizer)), and our process for identifying the right coating method and drying profile for primer (on oneBARRIER EXPERT COATER). We also supported with the lamination of barrier adhesive on the BOBST NOVA SX 550 LAMINATOR solventless machine.

**Partners involved in oneBARRIER FibreCycle**

**Michelman** is well-known as an expert in the development of barrier and functional coatings, as well as digital printing-press primers and OPVs (overprint varnishes) that are used in the production of consumer and industrial packaging, paper products, labels, and commercially printed materials.

For the oneBARRIER FibreCycle project, Michelman was responsible for developing the right chemistry for the paper primer before metal deposition, and again for the topcoat after metallizing.

**UPM** is a leading producer of packaging and label papers that deliver easy printability, impeccable performance and high shelf appeal, while answering the need for sustainability.

In the FibreCycle project, UPM conceptualized and produced UPM SolideTM Lucent specialty kraft paper – an optimum choice for maximized functionality in high barrier paper packaging.

**BOBST** is one of the world’s leading suppliers of substrate processing, printing and converting equipment and services for the label, flexible packaging, folding carton and corrugated board industries.

For the oneBARRIER FibreCycle project, we contributed our two well-established vacuum metallizing deposition processes (transparent AlOx GEN II or opaque AluBond (on EXPERT K5 vacuum metallizer)), and our process for identifying the right coating method and drying profile for primer and top coating (both on oneBARRIER MASTER COATER).

**Huhtamaki** s a Finnish consumer packaging converter whose production includes food packaging.  
Huhtamaki used the oneBARRIER FibreCycle solutions to develop the first ever hero samples of converted packaging using FibreCycle.

**Partners involved in BOBST Open House at Bobst Bielefeld**

**Miraclon** is a developer of plates and platemaking equipment for flexographic printing that drives superior print efficiency and performance.

Miraclon is the producer of Flexcel NX System of plates and platemaking equipment for flexographic printing, focused on superior print efficiency and performance. The system comes with Flexcel NX Central Software, which automates the plate layout process, optimizing and streamlining the delivery of Miraclon’s advanced plate surface patterning.

Flexcel NX system from Miraclon is featured in the Competence Center. The system in Bielefeld is also equipped with the latest multifunctional surface patterning technology of the company, PureFlexo Printing™, enabling a wider operating window on press and increasing print latitude at all quality levels for wide web, flexible packaging applications.

**U. Gunther** is an expert prepress company for packaging. The company produces flexo plates of the highest quality using the latest technologies – both digital and with conventional manual skills.

The printing plates can be precisely adapted to the individual machine characteristics and requirements associated with the print image, so that an ideal, custom-made result is assured.

**Henkel** is a multinational chemical and consumer goods company.

In the Competence Center, we are utilizing Henkel’s LOCTITE® high-quality laminating adhesives and coatings.

**AV Flexologic** is a leading manufacturer of mounting and pre-press equipment with 50 years of experience in the flexographic industry.

The company’s plate mounter SAMM 2.0 is in the Competence Center. The automatic flexo plate mounter has unmatched repeatability, speed and accuracy. BOBST’s smartGPS – a Graphic Positioning System that ensures all registration and impression settings are generated automatically off-line at the plate mounting stage – is installed on the SAMM 2.0.