

MIDO 2017: Evonik presents TROGAMID® for more freedom of design in optical applications

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Evonik will be at this year's MIDO in Milan, Italy, presenting an innovative technology for manufacturing eyeglasses frames: IMPLEX is based on TROGAMID®, a transparent, high-performance plastic, and gives eyewear manufacturers more freedom of design.

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Unlike traditional production methods, this novel technology involves cutting the finished frames from a single, curved preform, thus omitting the machining and finishing steps after injection molding. The preform is made ahead of time from multiple functional layers—the base frame made of TROGAMID®, the adhesive and coating layers, or the scratch-resistant film—and can be produced relatively quickly and flexibly, varying both the size of the preform and its radius of curvature.

Design variety with TROGAMID®

IMPLEX wins customers over with easy handling, excellent productivity, and the ability to customize in a variety of colors, textures, and patterns. For eyewear manufacturers, the ability to implement designs even more quickly is a major advantage of the innovative technology.

The innovation meets customer demands through its use of two material solutions from Evonik: TROGAMID® CX9704 is a transparent polyamide used for the base frame—its pliability allows manufacturers to vary the shape of the product. The second structural layer, which is made with TROGAMID® CX9711, has excellent processing characteristics and is highly resistant to chemicals.

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Cooperation between Evonik and Tungfung

The development of IMPLEX is based on decades of materials experience that Evonik has amassed in the field of high-performance plastics, along with technical expertise in the optics industry provided by Tungfung, a professional eyewear producer headquartered in Hong Kong. Evonik offers the right material and

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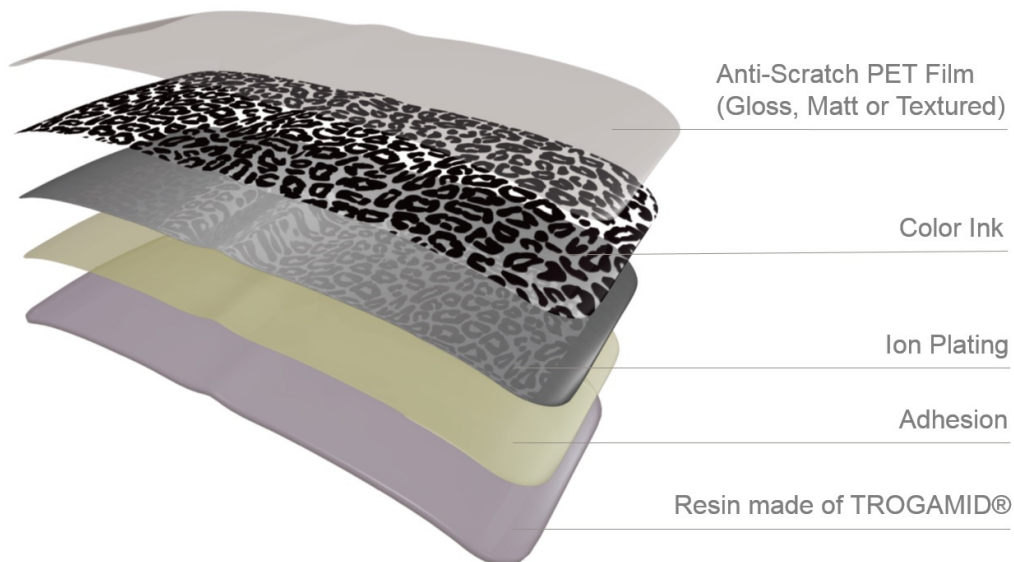
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product expertise, while Tungfung serves as an expert partner in the production of exceptional eyeglasses frames.



Caption: IMPLEX preform based on TROGAMID®.



Caption: The IMPLEX preform is made ahead of time from multiple functional layers.

Learn more about high-performance plastic TROGAMID® for optical applications at our booth (G61, Hall 2) at MIDO, February 25 - 27, in Milan, Italy.

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About Tungfung

Tungfung, the Group is the leading "one-stop" spectacles related raw materials and components supplier with the largest product range in Hong Kong. The Group offers one-stop production solution from procurement and manufacture of spectacles related raw materials and components to provision of after-sales services to its customers.

Company information

Evonik, the creative industrial group from Germany, is one of the world leaders in specialty chemicals, operating in the Nutrition & Care, Resource Efficiency and Performance Materials segments. The company benefits from its innovative prowess and integrated technology platforms. In 2015 more than 33,500 employees generated sales of around €13.5 billion and an operating profit (adjusted EBITDA) of about €2.47 billion.

About Resource Efficiency

The Resource Efficiency segment is led by Evonik Resource Efficiency GmbH and supplies high performance materials for environmentally friendly as well as energy-efficient systems to the automotive, paints & coatings, adhesives, construction, and many other industries. This segment employed about 8,600 employees, and generated sales of around €4.3 billion in 2015.

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