

Kuraray at Fakuma 2018: High-Performance Plastics to Suit Any Challenge

At Fakuma, specialty chemicals producer Kuraray is exhibiting acrylic-based block copolymer Kurarity as well as Hybrar, Eval EVOH, Genestar, and Mowiflex at Booth B1-1221 in Hall B1.

*Hattersheim/Friedrichshafen, **August 2018**. Plastics have to perform incredible feats, such as transmitting light waves long-distance, damping loud noise and strong vibration, or reliably protecting foods from oxygen. The standards expected of the materials and their processing capability continue to rise. At Fakuma 2018 from October 16 to 20, 2018, at Booth B1-1221 in Hall B1, Kuraray, an internationally leading specialty chemicals producer, is presenting Kurarity, Hybrar, Eval EVOH, Genestar, and Mowiflex - plastics with outstanding properties that can be put to easy and flexible use.*

Plastics are having to meet ever tougher requirements in terms of, say, long-term elasticity and resistance to the weather or heat. Sectors like the automotive, food and electronics industries need materials that can be employed in increasingly specialized applications. However, many of these plastics call for special processing techniques and are poorly compatible with widely-used production methods such as injection molding. Kuraray has therefore developed high-performance plastics that can be put to a variety of uses and can be combined - for simple and flexible processing and efficient production processes. From October 16 to 20, 2018, the specialty chemicals producer is presenting its broad plastics product portfolio at the 26th staging of Fakuma in Friedrichshafen, the international flagship fair for plastics processing. At Booth B1-1221 in Hall B1, the polymer specialist will be reporting on:

- *Kurarity, a new series of acrylic-based block copolymers for optical waveguide applications and polymer modification*
- *Hybrar, the thermoplastic elastomer with outstanding damping properties*
- *Eval resins entering barrier co-injection technologies for caps, thin wall, blow molding and stretch blow molding articles to protect food*
- *Genestar, the heat-, water- and chemical-resistant C9 monomer with very good mechanical properties*
- *Mowiflex, a water-soluble polymer that lends itself well to processing by injection molding.*

Plastics for Special Applications, from High-Damping to Totally Clear
Kurarity is a new series of acrylic-based block copolymers. With their outstanding clarity and elasticity, the materials are ideally suited to optical waveguide applications such as in vehicles, airplanes, and buildings. Produced with Kuraray's unique anionic polymerization technology, the thermoplastic acrylic elastomer features a very low share of residual monomers and oligomers - and is thus extremely pure. Kurarity is high-gloss, weather-resistant, and compatible with many polar materials - and ideal for numerous applications such as adhesives and moldings or for the modification of plastics.

The highly elastic triblock copolymer Hybrar displays unique vibration-damping and shock-absorbing properties, and its production without plasticizers is environmentally sound. The material achieves its maximal loss factor close to room temperature and is thus suitable for noise reduction in the automotive sector, the electronics industry and for acoustic components. Hybrar molds readily and is resistant to heat and weather influences - ideal for sports articles and floorcoverings. In its hydrated state, the triblock copolymer can be mixed with polypropylene, for example, to achieve high transparency and clarity. Hybrar can be flexibly processed with a wide range of methods such as film and tube extrusion and injection molding.

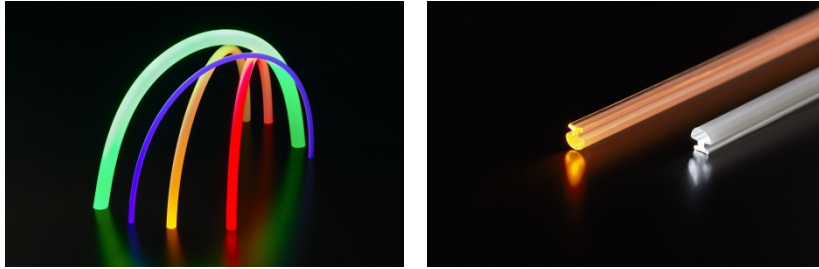
The EVOH copolymer Eval can be employed as a barrier resin in coextrusion and coinjection processes. With its astonishing barrier performances, this thermoplastic can as well be used for the packaging of dry food (coffee, tea) or retorted foodstuffs despite severe sterilization conditions allowing long shelf life preservation. At Fakuma, Kuraray explains how Eval EVOH as a highly effective barrier can also be used in complex coinjected structures.

Genestar PA9T is a high-performance polyamide that is available in extrusion and injection-molding grades. Its extremely balanced properties combine low water absorption, high chemical resistance, and exceptional mechanical properties into the high-temperature range. The polyamide is suitable for use in the automotive industry in transmissions, fuel lines, and thermostat housings. With its astonishing blister resistance, the material can also be used in the electrical and electronics industry such as in the production of SMT plug connectors. Based on the C9 module from Kuraray, Genestar is thus a dependable alternative to PA12 and other adiponitrile-based polyamides

The polyvinyl-alcohol-based polymer Mowiflex is water-soluble and at the same time highly suitable for thermoplastic processes such as injection molding and 3D printing. The material permits maximum design freedom in the production of plastics parts and can be used for such items as water-soluble packages, agrochemicals, and dishwasher detergent tablets. With its water-solubility, Mowiflex is also suitable for use in

fusible-core injection molding and for carrier materials in 3D printing. With its certified biodegradation, Mowiflex biodegrades demonstrably in water and its disposal via the wastewater is both simply and environmentally friendly.

Bildunterschrift/Quelle Fotos: Kuraray



[Foto 1 und 2] Absolutely clear for a stunning light effect: Thanks to their outstanding purity, the new Kurarity acrylic-based block copolymers are highly flexible and transmit optical waves over long distances- ideal for waveguide applications in cars, vehicles, and buildings.



[Foto 3] Facilitating a smooth ride, the triblock copolymer Hybrar from Kuraray has exceptional damping properties toward noise, vibration, and shocks. With its high resistance to heat and weather influences, it is suitable for challenging applications in vehicles, sports equipment, and the electronics industry.



[Foto 4, 5, 6, 7] The copolymer Eval EVOH from Kuraray protects foods against oxygen in packages just a few micrometers thick, now also available for co

injected multilayer containers



[Foto 5] Heat-, blister- and chemical-resistant: Exhibited by Kuraray at Fakuma 2018, Genestar is a highly robust engineering plastic that is ideal for processing by extrusion and injection molding.



[Foto 6] Customized and water-soluble: The polymer Mowiflex from Kuraray is suitable for many applications ranging from injection molding to additive manufacturing. Demonstrably biodegradable in water, Mowiflex is the ideal carrier material in 3D printing and for the production of automatic dishwasher tablets.

About Kuraray

Established in 1991, Kuraray Europe GmbH is based in Hattersheim, near Frankfurt am Main, Germany. In 2016 the company generated annual sales of over EUR 600 million. It has 760 employees in Germany at its sites in Hattersheim, Frankfurt and Troisdorf. Kuraray is a global speciality chemicals company and one of the largest suppliers of industrial polymers and synthetic microfibres for many sectors of industry. Examples are KURARAY POVAL™, Mowital®, Trosifol® and CLEARFIL™. Kuraray Europe also has around 100 employees at six other European sites. They are also working on the development and application of innovative high-performance materials for a wide range of sectors, including the automotive, paper, glass and packaging industries, as well as for architects and dentists.

Kuraray Europe is a wholly owned subsidiary of the publicly listed Kuraray Co., Ltd., which is based in Tokyo, Japan, and has more than 9,000 employees worldwide and sales of over EUR 4 billion.

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