

Functional polymer design: Safe food packaging

- Packaging coatings with DYNAPOL® polyesters provide outstanding protection
- Suitable alternative to systems containing BPA
- Versatile additives for printing inks and paints in applications with food contact

Evonik Industries offers versatile products for the packaging industry—for example DYNAPOL®, a binder for coatings of metal packages. Two new DYNAPOL® high-molecular polyesters permit interior coatings of the highest quality: DYNAPOL® L 907 and DYNAPOL® L 914 provide high media stability and outstanding protective characteristics. They had the best results in sterilization tests with coated metal test specimens with spicy and highly staining foods.

The high-molecular polyesters represent a suitable alternative to previous systems, which in many cases contain bisphenol-A (BPA). In January 2015, the European Food Safety Authority (EFSA) lowered the temporary tolerable daily intake of BPA to 4 µg/kg body weight; as of January 1, 2015, the use of materials containing BPA was forbidden in France for packages coming into direct contact with food. Even so, the EFSA concluded that BPA did not represent a risk to health for any age group at the current levels of exposure of consumers. DYNAPOL® L 907 and DYNAPOL® L 914 are in the category of "BPA-non-intentional" (BPA-NI).

With DYNAPOL® L 907 and DYNAPOL® L 914, Evonik, one of the world leaders in specialty chemicals, is expanding its DYNAPOL® product range, which is aligned solely toward applications with contact to foods. DYNAPOL® polyester resins are high-quality established binders for the production of pre-coated metal packaging. The DYNAPOL® product portfolio offers a variety of polyester resins, which are suited for use in food cans and meet the technical requirements of the market. In combination with the VESTANAT® B 1186 A, which is approved by the FDA, it is possible to formulate coatings with great flexibility and outstanding chemical stability, which are suitable for the high requirements of the sterilization tests used in this sector.

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Many other Evonik products help provide safe and healthy packaging for foods. For instance, methacrylate-based binders of the DEGALAN® brand are used in heat-seal coatings for yoghurt cups. They meet the highest standards: On the one hand the lid must be firmly sealed to the cup, to protect the content well; on the other hand, it must be easy to remove the lid from the cup. The functional polymers of the DEGALAN® product range make both possible.

Under the brand name TEGO®, the specialty chemical manufacturer offers additives that have been developed for solvent-borne and waterborne as well as radiation-curing printing inks, such as those used in food packaging. Using TEGO® Dispers products achieves stable and low viscosity, outstanding pigment stabilization, and high color strength. Many TEGO® products for printing of food packaging meet the demanding standards of the Swiss Commodities Directive for Packaging Inks (SR.817.023.21, Annex 6).

Evonik experts provide support to their customers along the entire value chain—no matter where they are located in the global coatings industry. In combination with decades of experience in the coatings industry, this makes it possible for Evonik to think along and, as a creative problem solver, be a partner to its customers. That is what we mean by "One Partner. Many experts."

Company information

Evonik, the creative industrial group from Germany, is one of the world leaders in specialty chemicals. Profitable growth and a sustained increase in the value of the company form the heart of Evonik's corporate strategy. Its activities focus on the key megatrends health, nutrition, resource efficiency and globalization. Evonik benefits specifically from its innovative prowess and integrated technology platforms.

Evonik is active in over 100 countries around the world. In fiscal 2014 more than 33,000 employees generated sales of around €12.9 billion and an operating profit (adjusted EBITDA) of about €1.9 billion.

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