

DYNAPOL® L 323

Competency: Functional Polymer Design



New granulate solution for flexible packaging coatings: DYNAPOL® L 323

Evonik Industries AG has added the new DYNAPOL® L 323 to its product range. Customer sampling and product marketing can begin immediately.

DYNAPOL® L 323 is an amorphous, high-molecular copolyester that was specially developed for use in the manufacture of flexible packaging. What makes the new product stand out is its excellent adhesion to different qualities of PET and aluminum foil in particular. This was achieved by setting a relatively low glass transition temperature of 30°C, which makes the polyester highly flexible at the same time.

Such amorphous polyesters with a low glass transition temperature normally tend to interlock on account of their surface tack. This means they can only be handled in solution, melted down in barrels or packed in panel form in release foil. Whereas delivery in solution gives customers less freedom in the coating formulation owing to the fact that the solution is defined from the outset, working with solidified melt in barrels or in panel form is very cumbersome for customers.

From the very beginning, the aim was therefore to create the new polyester as a granulate in spite of its low glass transition temperature. This reduces transportation and storage costs, makes it easier for customers to handle, and enables them to decide individually on the solvents. Thanks to the special formulation and elaborated process management, Evonik succeeded in averting the risk of interlocking at a low glass transition temperature. DYNAPOL® L 323 is permanently protected against this and easy to process, which offers customers enormous benefits and also makes their work easier.

The new DYNAPOL® L 323 complies with the required regulations for coatings that come into contact with food (EU, FDA) and is thus suitable for use in modern, flexible food packaging.

Products from the DYNAPOL® L family are tried and tested in the manufacture of flexible packaging. They are used wherever good adhesion to polar substrates with flexibility is required. They are primarily used as binders in primers, overprint varnishes, and hot-seal coatings. They can also be used as co-binders in printing inks or as an interlayer in the manufacture of multilayer foils.

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