

ECS 2025 Product Presentation

Title of the lecture: *

Nichigo G-Polymer™:

Next-Generation BVOH-Based Barrier Coating with Superior Gas Barrier Performance in High-Humidity Conditions

Subject classification: *

Coating raw materials

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Abstract

Nichigo G-Polymer™ is a butanediol vinyl alcohol co-polymer (BVOH) which has valuable properties in water-based coating, such as excellent gas barrier, water solubility with long stability of solution, coating attitude, biodegradability and recyclability. It is used as a barrier layer for multi-layer barrier packaging.

For sustainable packaging solutions, market has been prolonging shelf life of food for minimizing food waste by high gas barrier packaging. Also, barrier packaging can minimize packaging waste since it reduces the weight/thickness and provides mono-material structure for recyclability.

On the other hands, the further requirement was improvement of gas barrier at high humidity conditions.

In this time, we have developed a new coating grade of Nichigo G-Polymer™ as it performs high barrier at high humidity too. The new grade can be used in current structure of Nichigo G-Polymer™ barrier packaging on substrate of PP, PE or even paper etc. Combination with metallization is also possible.

This new technology brings you a lot of opportunities to extend your market and enhance value of your coating/packaging products.