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VENDOR SEMINAR:

Migration Screening of Raw and Food Contact Materials Using Intuvo GC MS

Migration screening of raw and food contact materials using Intuvo GC MS

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Food Contact Materials (FCM) are an essential part of our lives. There is a great interest in the improvement of these materials and chemical substances which are being used for advancing their technological characteristics to the benefit of the consumers. Printing inks are usually applied on the non-food contact side of an FCM, however migration of ink film ingredients may happen through the food contact layer. Therefore, the one objective of our work at Siegwerk Druckfarben AG & Co. KGaA, a company with 180- year history in tailored ink technology and service, focuses on ink solutions for packaging and systematic processes for product safety, especially for packaging material for nutrition, pharma and hygienic applications. The starting point of new innovations entering ink formulations, is the raw material introduction process with a checklist for both approval and exclusion criteria (e.g., carcinogenics, mutagenics, reprotoxics, toxics..etc.), defined purity standards and a full understanding on existing impurities, compliance with chemical registration and full understanding of chemical composition for food packaging. In addition to information of possible suppliers, our own investigations into the purity of the raw material is undertaken, direct on the raw material and with in-house migration screenings. After the initial introduction of the materials to the manufacturing process, routine quality controls of the raw materials and products are applied to asses and ensure consistent quality, overall efficiency and safety.

In this presentation, the workflow for and the Intuvo GC/MS-FID optimization work will be presented along with results of migration samples using the coupled Intuvo GC/MS-FID system.