Some Results on FT-IR Analysis of Various Food Packaging Polymers

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Abstract: In general, study of polymeric type materials used for food packaging and diffusion of some chemicals (migrants) through package to foods during their storage has become an essential part of ensuring a safe food. Special care was given to the most promising scientific achievements such as the evaluation of exposure to these substances in food, technical barriers, etc. which must be taken into consideration. For the evaluation of the migration process except analytical methods such FID, HPLC, etc., we were able to use the different specialized software, the different modeling which have been scientifically verified and mathematical calculations, which can be used to complement experimental measurements, improving the understanding of migration which make possible prediction and the calculation of the life time limit of food storage in certain packages, and the materials or their components which experimentally are not suitable for use in foods. EU legislation determines the limits of some chemicals; polymers, monomers and additives as ingredient of plastic packaging materials for contact with food. In the absence of legislation and the obligation to control the composition of food packaging in Kosovo, has been negatively possible to use a high percentage of recycling materials for contact with food, uncontrolled materials that do not meet the standards and non-recognition of those materials by users and consumers, which could pose a risk to food safety and consumer.

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