



Additive analysis in polymers

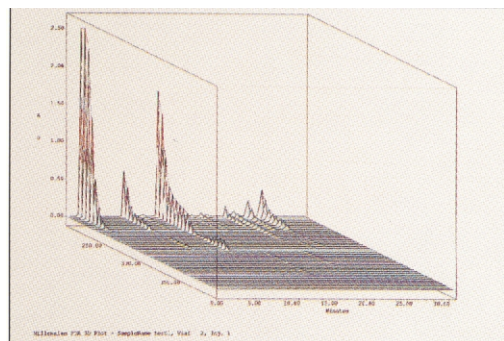
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Material properties of polymers and their stability in time are controlled not only by the molecular structure of the polymer but also by the way this structure is stabilized by the additives package. The additives control thermal and UV-stability, colour and various physical properties. Moreover, the manufacturing of polymer products can be influenced via processing agents like antiblocking and slip agents, while the product safety (food contact, flame retardance) can be controlled by choosing the right additive package.

Some examples of problems/questions in which additive analysis is an important factor are: checking product specifications, determining the composition of an additive package and investigating the cause of discolouration of polymer products. The illustrations give an example of the use of chromatography data for revealing the identity of additives present in the polymer products shown.

At DSM Research highly trained experts are engaged in the characterization of additive packages. They have the technical facilities for performing qualitative and quantitative analyses of numerous different additives in a wide variety of polymers, e.g. polyethylene, polypropylene, EPDM, ABS, polycarbonate, polyesters, polyamides, polyurethanes, resins, PVC and blends of these polymers.

If you would like to benefit from our vast experience in the field of additive analysis we will gladly supply you with additional information.



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