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Overview: In general, the direct determination of additives in plastics, as opposed to carrying out a preliminary extraction technique, such as is discussed in Chapter 2, is less time consuming and more reproducible. The direct determination of all the additives in such extracts is

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not always possible because of spectral interferences from other additives, low relative molecular weight (MW), mass matrix oligomers and the extracting solvent.

Chapter 1: Direct Determination of Additives in Polymers ...

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Determination of Additives in Polymers and Rubbers. Powerful new analytical tools have been made available to the chemist by a combination of various chromatographic techniques with methods of identifying separated additives and their degradation

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Rubbers products by techniques based on infrared and mass spectrometry.

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traces of additives such as antioxidants and ultraviolet-absorbing compounds. It is important to

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Rubber understand their impact on the polymer and its quality. High-performance liquid chromatography (HPLC) is an analytical method that is effective for the qualitative and quantitative analysis of these additives. In HPLC, UV detection is the most

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Analysis of Additives in a Polymer -
Agilent

potential detection of polymer additives that might be released out of packaging material. This Application Note demonstrates the applicability of SFC for typical polymer additives

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Rubber using the Agilent 1260 Infinity Analytical SFC System in combination with an Agilent 6130 Single Quadrupole LC/MS System. Authors Melissa Dunkle, Gerd Vanhoenacker,

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concerned with problems associated with additives and adventitious impurities in polymers determination of additives in polymers determination of additives in polymers and rubbers is designed as a practical text for use in the laboratories of the plastic producer and user industries and by others such

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as universities and institutions who are

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Certain additives, such as acrylic polymers, can improve impact and provide greater ease of processing at the same time. PVC material that is

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intended for molding or extrusion is often treated with lubricants, processing aids, and impact additives at the same time.

Polymer Additives and Their Functions
The first stage in the examination of a polymer, either from the point of view

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of identifying the polymer or identifying and determining additives present must be to separate gross polymer from gross additives. It may then be necessary to separate the gross additive fraction into individual additives by a chromatographic procedure in order to facilitate the

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identification of individual additives.

Chapter 2: Extraction Techniques for Additives in Polymers ...

Additive analysis for polymer materials can be challenging due to the complexity of the materials: the presence of various groups of

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Rubber, compounding ingredients, and fillers all in one sample. Chemical identification of polymer additives is essential to all parts of the plastics supply chain as additives can impact both the functional properties of the materials and the production cost of polymers.

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Additives Analysis for Polymers and Plastics

The main groups of additives customarily used in polymer formulations that can be analyzed and quantified by the GC-MS technique are, among others, antioxidants, UV

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Rubber and absorbers, thermal stabilizers, lubricants, plasticizers, and flame retardants.

Identification of Additives in Polypropylene and Their ...
Polymers and Plastics. Stabilizer and Processing Aids. □ Mg, P, Cu and Ca

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are indicators for additives. □ Mg, Al, Ti, Ni, Mo are typical residues from initiators. □ F, Cl, Fe, Zn are impurities from production processes. □ Pb, Hg, Br, Cd, Cr are regulated substances (RoHS, WEEE), other regulations.

XRF Analysis of Polymers Additives,

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Determination of additives in polymers and rubbers. [T R Crompton; Rapra

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Determination of additives in polymers

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An analytical method of magnetic solid-phase extraction followed by high performance liquid chromatography (MSPE-HPLC) was successfully established for the simultaneous determination of seven polymer additives in drinks and foods packed

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