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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 as universities and

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

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properties of the materials and the production cost of polymers.

Additives Analysis for Polymers and Plastics

So, the determination of additives content in polymers is an important component of the safety assessment of food packaging materials, the

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quantification and specific migration levels (SMLs) of these additives are also very important for the quality control of food.

Determination of Polymer Additives-Antioxidants ...

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impurities in polymers.

Determination of Additives in Polymers and Rubbers - Civil ...

traces of additives such as antioxidants and ultraviolet-absorbing compounds. It is important to understand their impact on the polymer and its quality. High-performance liquid chromatography

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(HPLC) is an analytical method that is effective for the qualitative and quantitative analysis of these additives. In HPLC, UV detection is the most

Analysis of Additives in a Polymer - Agilent

Determination of Additives in Polymers and Rubbers. Powerful new analytical

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tools have been made available to the chemist by a combination of various chromatographic techniques with methods of identifying separated additives and their degradation products by techniques based on infrared and mass spectrometry.

Determination of Additives in

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Polymers and Rubbers ...

identifying separated additives and their degradation products by techniques based on infrared and mass spectrometry. In particular supercritical fluid chromatography combined with mass spectrometry has come to the fore. Combinations of polymer pyrolysis with gas chromatography with mass

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spectrometric identification of the pyrolysis products is

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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

Additives are responsible for the acceptance of plastics worldwide. The

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amount of plasticizer in polyvinyl chloride determines whether or not it is rigid (as is pipe) or flexible (as is wallpaper...

T. R. Crompton: Determination of Additives in Polymers and ...

Determination of additives in polymer pellets by near-infrared spectroscopy

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This Application Note shows that NIR spectroscopy is an excellent tool for determining low concentrations of additives in finished polypropylene pellets. This is demonstrated by monitoring the UV stabilizer Tinuvin 770 and the antioxidant Irganox 225.

Determination of additives in

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polymer pellets by near ...

Determination of polymer additives and migration products prevalent in food packaging material Using the Agilent 1260 Infinity SFC System with the Agilent 6130 Single Quadrupole LC/MS System Application Note Consumer Product, Food Safety Abstract

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Determination of polymer additives and migration products ...

This test method provides a means to determine the polymer additives listed in Table 1 in polyethylene samples. This test method is capable of the determination of other antioxidants, but the stability of these during extraction has not been investigated.

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ASTM D6953 - 18 Standard Test Method for Determination of ...

Determination of Additives in Polymers and Rubbers Designed as a practical text for use in the labs of the plastic producer and user industries, this up-to-date book presents recent knowledge on polymer additive systems, such as

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chromatographic techniques, gas analysis, thermogravimetry, and more.

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

Despite how useful these additives are in the functionality of polymer products, their potential to contaminate soil, air, water and food is widely documented in

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literature and described herein. These additives can potentially migrate and undesirably lead to human exposure via e.g. food contact materials, such as packaging.

An overview of chemical additives present in plastics ...

Determination of

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N,N'-ethylenebistearamide additive in polymer by normal phase liquid chromatography with evaporative light scattering detection. A new method for N,N'-ethylenebistearamide (EBS) analysis was developed and validated in normal phase-HP liquid chromatography (NP-HPLC) with diol column at 50 degrees C with 100% CHCl₃ at 1 mL

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min(-1) and evaporative light scattering detection with elution time at 3.0 min. EBS solubility was the

Determination of N,N'-ethylenebisstearamide additive in ...

The incorporation of additives makes polymer materials suitable for multiple

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applications in the plastic market: automotive, design, packaging, constructions, electronics, telecommunication (Pritchard, 1998). Additivation of molecules or particles to the virgin polymer can improve its bulk and surface properties.

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