Rubber Composition Spectrometer

Fourier Transform Infrared (FTIR) spectroscopy is a powerful analytical technique used to identify the base polymer and other chemical components in rubber compounds.

Data Interpretation: Our skilled analysts interpret the FTIR spectra, extracting meaningful information about the molecular structure and composition of the rubber.

The research findings indicated that the designed spectrometer, featuring 18-band spectral sensors, was cost-effective and showed important promise for rapid estimation of the moisture ...

In this article, three examples are introduced, and they could be applied to analysis for other kind of rubbers and elastomers. First example is infrared spectroscopy with Attenuated Total Reflectance ...

The Rubber Group"s FTIR spectrometer with microscope allows the rubber molding company to reverse-engineer rubber materials, verify elastomers, and identify contaminants. Learn ...

The infrared spectroscopy methods provide identification of rubber and other polymers and their mixtures basing on examination of spectra of the polymers and their pyrolysis products and films cast ...

In this application note, the amount of key components in two important copolymeric materials are measured -- the styrene content in styrene butadiene rubber (SBR) and the ratio of polyethylene to ...

With the continuous improvement and development of infrared instruments,particularly advancements in computer technology, Fourier Transform Infrared (FTIR) spectroscopy has become a favorable and ...

Baseline correction and a spectrum search were performed for the spectrum obtained from measurements. The spectra below are for nitrile rubber containing PVC (polyvinyl chloride), where ...

This is a method of cutting thin sections from a rubber sample and conducting analysis by the transmission method. It permits analysis of rubber samples without pretreatment such as extraction ...

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