

Название публикации:

Investigation of chlorinated modifier content influence on the physical-mechanical properties and vulcanizing characteristics of rubber and rubber mixture

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Сведения об издании:

INTERNATIONAL CONFERENCE MODERN TECHNOLOGIES AND MATERIALS OF NEW GENERATIONS

Групповые авторы книг: IOP

Серия книг: IOP Conference Series-Materials Science and Engineering

Том: 286

Номер статьи: UNSP 012004

DOI: 10.1088/1757-899X/286/1/012004

Опубликовано: 2018

Тип документа: Proceedings Paper

Аннотация:

Present paper is devoted to the novel solution for the chlorination technology of polyolefin and diene rubbers - mechanochemical halide modification, as a more efficient way to obtain halogenated elastomers with a wide range of halogen content (from 3 to 7 %). The vulcanizing characteristics of elastomeric compounds based on the chlorinated rubber compounds as well as the production conditions of vulcanization process have been studied by the methods of dynamic mechanical rheometry. The performed investigation revealed the influence of chlorine content in different types of rubber compounds on rheological and physical-mechanical properties. New halogen-containing polyolefins rubbers produced by this technology proved themselves in the conditions of the rubber production.

Ключевые слова:

Chemical-reactions; kinetics; polymers