

Title: The Composition Filled In With Almond Shell

Name: Musazade Zulfiyya
Azerbaijan State University of Oil and Industry, Azerbaijan

The Composition Filled In With Almond Shell: This study investigated the mechanical, chemical structure and thermal properties of the biopolymer composition. The components used in the preparation are biopolymer sample of almond shell as a filler. The phenol – formaldehyde oligomer was modified with monometilaniline. Modified resol type phenol - formaldehyde oligomer used as a liaison. The main parameters of the obtained oligomer have been studied. For comparison, the main indices of the unmodified oligomer have been researched. An environmentally friendly coating was obtained as binder and almond shell as a filler.

Thermal and mechanical indices of many bioplastics have similar, eventually even higher consumer properties in comparison with the ones traditionally obtained from thermoplastic products. In these terms bio crumbling polymers are more suitable: the resources necessary for their production and renovation are more efficient. It should also be noted that the high cost price of the material may be temporary, as far as the production of biopolymers is not mass and the value of bioplastics will be reduced over time, as a result, they will be affordable for lots of businesses.

The main purpose of the presented research is to study almond shell composition as a biopolymer, its physical and mechanical properties and to use it as a filler in the preparation of the biocomposition.

The disadvantages of phenol formaldehyde oligomer was modified with nitrogen-containing modificator and its main physical - mechanical properties have been studied.

Biography

Zulfiyya Musazade is PhD student at Azerbaijan State University of Oil and Industry, Department of Organic substances and technology of high molecules compounds**,** Faculty of Chemical Technology. She is at the position of Senior Laboratory Technichian at SOCAR Polymer. She has published more than 4 papers in reputed journals.

Presenting author details
Full name: Zulfiyya Musazade Mehrab
Contact number: +994512256918
Mail address: zulfiyye.musazade@gmail.com
Twitter account: zulyamusazade
Linked In account: Zulfiyye Musazade
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