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# DISPERS TO'LDIRUVCHILI POLIMER-POLIMER KOMPLEKSLAR ASOSIDAGI KOMPOZITSION MATERIALLAR

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## ANNOTATSIYA

Maqolada karbamido-formaldegid smolasi (KFS) va karboksimetil-selyulozaning natriyli tuzi (KMS - Na) asosida olingan polimer-polimer kompleksga (PPK) dispers to‘ldiruvchilar (fosfogips-FG va qum) qo‘shib kompozitsion materiallar olish ko‘rsatib berilgan. PPK ga dispers to‘ldiruvchilar qo‘shib olingan kompozitsion materialning ko‘pgina xossalari: fizik – kimyoviy, mexanik xossalari o‘zgarib ketishi ko’rsatib o’tilgan.

Olingan kompozitsion material, elektron mikroskop orqali o’rganilib, undagi g’ovaklarni joylashishi, o’lchamlari ko’rsatib berilgan. Bundan tashqari olingan kompozitsion material infraqizil spektrofotometrik va termogravimetrik usullarda tadqiqot qilingan. Unda funktsional guruhlarni joylashishini o’zgarishlari ko’satib o’tilgan.

**Kalit so‘zlar:** karbomido-formaldegid smolasi (KFS), karboksimetilselyulozaning natriyli tuzi (KMS - Na), interpolimer kompleks (IPK), fosfogips (FG), kompozitsion material (KM).

# THE COMPOSITE MATERIALS BASED ON POLYMER-POLYMER COMPLEXES AND DISPERSED FILLERS

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## ABSTRACT

The article provides composite materials for the dispersion fillers (phosphogips-FG and sand) in the polymer-polymer complex (PPC) based on the urea salt of the urea-formaldehyde (KFS) and sodium salts of carboxymethyl-cellulose (KMS - Na). Many of the properties of the composite material, including the dispersion fillers in the PPC, have been shown to vary with their physical, chemical and mechanical properties.

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The resulting composite material was studied by an electron microscope, showing the locations of pores and the sizes. In addition, the composite material obtained was investigated by infrared spectrophotometric and thermogravimetric methods. It describes changes in the location of functional groups.

**Keywords:** karbamido-formaldegid with(KFW), carboxymethyicellulose - Na (CMH-Na), interpolymeric complexes (IPC), fosfogips (FG), compositional polymeric materials(SM).