INTERPOLYMERIC COMPLEXES OF POLYANILINES IN SOLUTION AND
COMPOSITIONS ON THEIR BASIS

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The study macromolecular systems of capable to self-organizing by cooperative reactions represents large theoretical interest. The interaction chemically complementary macromolecules in a solution concerns to such reactions Polyaniline (PANI) and its derivative differ from other conducting polymers by that they pass in a conducting condition as a result of the basic interaction between atoms of nitrogen circuit of polymer and acids.

En spite of growing of interests to electroconductive polymers now practically not researched. Intermolecular reactions of such polymeric electrolytes as PANI.

We researched formation of interpolymer complexes of polyaniline with linear polyacetylenes in solutions. The influence of a chemical nature of the reception of water solvency interpolymer complexes is shown.

By (removal) distance of the organic. Solvent a received of a film of interpolymer complexes.

Contents of PANI is higher than 55% of a film have high electronducting but becomes fragile and rigid. This lack was eliminated at addition to a mix PANI in to an acid from 5 up to 15% solution of polyacetylene.

On the basis of the synthesized polymeric connection was created the skilled installation for effectively sorption of gas wastes of chemical manufactures.