

Mustafayeva R.E.

rena-babaeva0@rambler.ru (Azerbaijan State Oil and Industry University,
Baku, Republic of Azerbaijan)

THE RESEARCH OF PROPERTIES ELASTOMER OF THE CONTAINING COMPOSITIONS

Chemical and physic-mechanical properties of polyurethane in many respects for example by variety of chemical bonds of various types in its structure, and actually represent the block of sopolymers are defined alteration of sites of various chemical natures is carried out [1].

However, products on the basis of polyurethane along with the high durability and excellent wear resistance are characterized by narrow temperature intervals of use and rather high cost. Receiving high-adhesive polymeric composition on the basis of industrial polyessential-the polyoxypropylene glycol combined with 4,4'-difenilmetandiizotsionats and 5% solution of butyl rubber at the room temperature in toluene became an object of the real research.

The kinetics of sopolicondensation they polioxypropylenglykol and 4,4'-difenilmetandiizocionats received. It has been established that the reaction of education migration flows tint urethane polymerization based on accession to the nitrogen. That the combination of sooligomers with butyl rubber (isoprene and isobutylene copolymer) increases the elasticity of the system, relieves shrinkage and increases the thermo-chemical resistance it is shown.

For the purpose of obtaining highly adhesive and highly elastic composite material made of polyurethane sooligomers mixtures with butyl rubber (BC) with high rates of heat resistance, flexibility, chemical resistance to aggressive environment, resistance and water resistance has been studied. It is shown that mixing polyurethane copolymer with butyl rubber polymer formation occurs system, macromolecules which mechanically interacting among themselves form a so-called grid interpenetrating.

The specified composition is also resistant to aggressive environment, which makes their application perspective. Comparison of differential thermal analysis sooligomers and compositions sooligomer+butyl rubber, shows that the thermally of composition more stable than sooligomer. In the work solved an important scientific and technical challenge of improving the quality of adhesive compositions.

The study developed recommendations for improving the properties of adhesive compositions, competitive with respect to existing analogues

for recipe structure, technology access and use adhesive compositions. Received by the specified compositions can be used in the manufacture of polymer products for the oil and engineering industries.

REFERENCES

1. Kudryavtsev Y. V., Plate N. A., Litmanovich A. D., Macromolecular reactions in melts and polymer mixtures. Theory and Experiment Moscow: Nauka, 2008, 380 p.