

# Structure of polymer composites on basis of epoxy resin and organic and inorganic dispersed industrial wastes

Galeev R., Maisuradze N., Abdrakhmanova L.  
*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

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## Abstract

© 2016 Trans Tech Publications, Switzerland. The paper presents the influence of the conditions of combining of the epoxy binders and particulate filler on the formation of submolecular structure of the composites. The optimum concentrations of filler among industrial waste in the composition content has been determined and the dependence of the formation of the structure of the following technological parameters such as filler concentration, order of components combining (epoxy resin, hardener and filler), solidification modes of the composition has been identified. Microphotographs of the structure and interpretation of the connection of the properties of the composites and their structure are presented below.

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## Keywords

Epoxy composites, Organic and inorganic waste, Particulate filler, Submolecular structure