

Dielectric properties of intercalated kaolinite.

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Streszczenie

Intercalation of kaolinite allows to locate guest polar molecules in the interlayer area. In the presented experiments, the kaolinite+potassium acetate, kaolinite+urea and kaolinite+N-methylformamide intercalates were investigated. An increase in electric permittivity at low frequencies is probably related to the interlayer water molecules. The increase in the high frequency permittivity and losses were explained as a movement of the polar intercalated molecules. The dielectric properties were discussed simultaneously with the results of thermogravimetric and X-ray experiments.

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