

## Correlations of contact angles of liquids on the surface of polymer films with the transport properties of amorphous polymers

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### Abstract

The specific surface free energy of the films of amorphous polymers of different classes was determined using contact angle method. Interrelation between the dispersive component of surface energy values, the free volume and gas permeability of polymers was demonstrated. The possibilities of using wetting isotherms to determine the alcohol concentration corresponding to the beginning of its sorption in nanofiltration of water-ethanol mixtures through solid polymer membrane were shown.