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Influence of Above-Molecular Structure, Electronic and Ionic Phenomena on Durable Properties of Polymer Dielectrics in the Electric Field

T. M. VELİYEV, S. A. ABASOV, M. J. ZEYNALOVA, E. HALİLOVA

Institute of Physics, Azerbaijan Academy of Sciences,

H. Javid Avenue, 33, Baku, 370143 - AZERBAIJAN

H. MEMEDOV, I. ASKEROV, S. AYDOĞU

Dumlupınar University, Faculty of Arts and Sciences,

Department of Physics, Kütahya - TURKEY

 [Keywords](#)
[Authors](#)



phys@tubitak.gov.tr

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Abstract: Influence of above-molecular structure (AMS) on electrothermoluminescence, the altering time and the mechanic time of polymer dielectrics in strong electric fields that depend on temperature have been investigated. It has been shown that change of AMS considerably influenced the processes of injection and stabilization of charges as well as the solidity properties of polymers. It has been determined that the relaxation translations in large spherulite samples were observed at lower temperatures than the relaxation translations in small spherulite samples.

Key Words: Above molecular structure, polymer dielectrics.

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