

Abstract: Through the measurement of positive and negative corona charging and thermally-stimulated discharge (TSD) current spectra during ageing at different temperatures after corona charging at R_T , the outstanding electret features of PP and stability of charge in PP at R_T and elevated temperature were investigated. The shift of mean charge depth after corona charging at R_T and elevated temperature was studied by means of thermalpulse method. The transport model of detrapping charge in a sample for PP was discussed. These studies suggest that fast retrapping is characterized by the transport model of detrapping charge in PP.