2016

Effet du traitement Thermique (Trempe libre)sur lesproprietes thermiques et thermo-dynamique dupolypropylene(PP)

Merabet Safia, Rouabah Farid

Abstract : This work deals on the study of the thermalproperties of polypropylene (PP) in the presence of residualstress (CR). A laboratory scale, two valid methods forintroducing residual stresses in the polymer, which are nonuniformcooling (thermal quenching), and the non-uniformplastic deformation (cold rolling) is known. The results obtained by the DMA analysis result presentation of two relaxations, 'for all the samples studied. DSC results show a decrease in theorystallinity of the polymer at free quenching temperature of 20°C.

Keywords: Polypropylene, Quenching, Thermal history.