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

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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 for introducing 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 the crystallinity of the polymer at free quenching temperature of 20°C.

Keywords: Polypropylene, Quenching, Thermal history.