

SUMMARY

The aim of the thesis deals the study of glass transition temperature values of plasticized branched oligoesters during their degradation in hydrophilic media. In the theoretical part is in the overview presented basic knowledge concerning thermal analysis of polymers, mainly glass transition temperature measurements and basic pharmaceutically relevant findings about aliphatic polyesters, their biodegradability and medical use as surgical suture material and drug carriers. Experimental section of the thesis is focused on the influence of hydrophilic aqueous medium, type of oligomeric carrier, and plasticizer kind on the glass transition temperature values during degradation. New relations among studied parameters in the consequence with glass transition temperature changes of the plasticized oligoester matrices were revealed.