

Šulková Petra – Rigorózní práce – 2006

This work deals with the evaluation of plasticity of mannitol by means of the stress relaxation method. Theoretical part of the work describes preparation of the tablets by direct compression, theory of compression and characterizes mannitol. The aim of the work was the determination of mannitol plasticity, following of the influence of the dwell time on residual plasticity and determination of the dependence of residual plasticity on compression force. The plasticity was measured by means of T1 – FPO 50 device.

It follows from the results of the work that the increase in dwell time of mannitol tablets lead to the increase of plasticity. Mannitol had the parameter A 56.62 % and B $-0.369\% \text{ kN}^{-1}$.