

## Content

ABSTRACT.....	ii
ABSTRACT IN CZECH.....	iv
1. LIST OF PAPERS.....	1
2. INTRODUCTION.....	2
2.1. The phenomenon of physical aging.....	2
2.2. Physical aging initiation.....	3
2.3. Enthalpy and volume relaxation.....	5
2.4. Simultaneous volume and enthalpy relaxation.....	5
2.5. Physical aging of composites.....	7
2.6. Physical aging of semicrystalline polymers.....	9
2.7. Volume and enthalpy response to temperature up-jump.....	9
2.8. Theoretical models for description of volume and enthalpy relaxation.....	10
3. SUMMARY OF PAPER.....	12
3.1. Paper I.....	12
3.2. Paper II.....	12
3.3. Paper III.....	12
3.4. Paper IV.....	13
3.5. Paper V.....	13
3.6. Paper VI.....	14
ACKNOWLEDGEMENT.....	15
REFERENCES.....	16

## PAPER I-VI