Topological constraints and the role of polymerization conditions

Propositions

Belonging to the dissertation:

Topological Constraints and the Role of Polymerization Conditions

1. The micro-structure of polymer should be considered together with the processing procedure in order to obtain the good properties of polymer materials. (**Chapter 1** of this thesis)

2. The polymer topology can be efficiently tailored from the synthesis.

3. Topological constrain plays an important role in the body of polymers, crucially influencing the properties (in relation to proposition 1).

4. The beauty of the low-entangled polyethylene helps to pursue a better life.

5. The observation of two different types of entanglement in the low-entangled polyethylene melt lays a fundamental base for understanding low-entangled polymer melts. (**Chapters 3** and **4** of this thesis)

6. Higher means better, combing with understanding and operation. (**Chapter 5** of this thesis)

7. The existence of a weak network invokes the possibility to process UHMWPE in the melt state. (**Chapter 7** of this thesis)

8. The understanding of low-entangled polyethylene enables a promising route to explore other polymers. (**Chapter 7** of this thesis)

9. Interest is a good additive for having a tasty course in the life journey.

10. Never stop learning, thinking and enjoying.