

Topological constraints and the role of polymerization conditions

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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.