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INTERFACIAL MORPHOLOGY"; "4. THE FORMATION MECHANISM OF DIVERSE INTERFACIAL CRYSTALLINE STRUCTURES"; "4.1. Competing Interfacial Morphology"; "4.2. Interfacial Shish-Kebab Layer (SKL)"; "4.3. Interfacial Transcrystalline Layer (TCL)"; "5. THE INTERFACIAL ADHESION OF THE INTERFACE "; "CONCLUSIONS "

PART II. ENHANCEMENT OF INTERFACIAL ADHESION AT ASYMMETRIC POLYMER INTERFACE VIA IN-SITU REACTIVE COMPATIBILIZATION

Introduction "; "Experimental "; "Preparation of Specimens"; "Characterization "; "Interfacial Adhesion "; "Interfacial Morphology "; "Determination of the Density of Copolymers at the Interface "; "Interfacial Fracture Mechanism "; "SECTION I. THE INTERFACIAL ADHESION AND FRACTURE MECHANISM OF PE/PA6 IN SITU REACTIVE COMPATIBILIZED BY THE ADDITION OF PE-MAH INTO PE INTERFACE"

1. Effect of PE-MAH Content and Processing Parameters on the Interfacial Adhesion "2. Interfacial Morphology"; "3. Interfacial Fracture Mechanism "; "SECTION II. EFFECT OF GRADIENT COOLING ON THE REACTIVE REINFORCEMENT IN A SEQUENTIAL INJECTION MOLDING "; "1. The Relationship between IS and in a Sequential Injection Molding Process "; "2. The Relationship between IS and in Isothermal Annealing Process "; "SECTION III. EFFECT OF A TIE LAYER ON THE ENHANCED INTERFACIAL ADHESION BETWEEN PE AND PA6 IN A SEQUENTIAL INJECTION MOLDING "

1. Effect of Processing Parameters on Interfacial Adhesion of Overinjection Molded PE/Tie Layer/PA6 Interface "
