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ON INTERFACIAL MORPHOLOGY ""; ""3. EFFECT OF SHEAR STRESS ON 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 ""
