

Polypropylene Structure, blends and composites

Volume 1 Structure and Morphology

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Polypropylene: Structures, Blends and Composites, in three separate volumes, reflects on the key factors which have contributed to the success of polypropylene, dealing with all aspects of structure-performance relationships relevant to thermoplastic polymers and related composites.

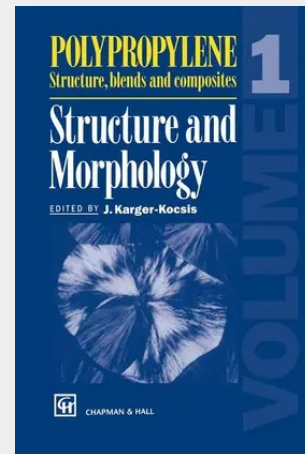
Volume 1, , deals with polymorphism in polypropylene homo- and copolymers, where molecular and supermolecular structures are covered, and the processing-induced structure development of polypropylene, showing the interrelation between the processing-induced morphology and mechanical performance.

Volume 2, , contains comprehensive surveys of the nucleation and crystallisation behaviour of the related systems. It includes the development of morphology and its effects on rheological and mechanical properties of polypropylene-based alloys and blends and a review of polypropylene-based thermoplastic elastomers.

Volume 3, , gives a comprehensive overview of filled and reinforced systems with polypropylene as a matrix material, with the main emphasis on processing-structure-property-interrelationships. Chapters cover all aspects of particulate filled, chopped fibre-, fibre mat- and continuous fibre-reinforced composites. Interfacial phenomena, such as adhesion, wetting and interfacial crystallisation, are also included as important aspects of this subject.

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