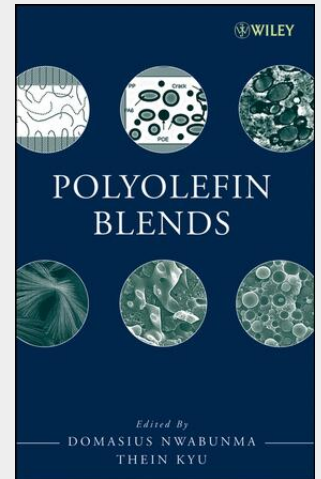


## Polyolefin Blends

The definitive reference on the properties and applications of polyolefin blends. Polyolefins account for more than half of total plastics consumption in the world. In recent years, usage of and research on polyolefin blends have increased significantly due to new applications in medicine, packaging, and other fields and the development of novel polyolefins. With a special emphasis on nano- and micro-structures of crystals and phase morphology, Polyolefin Blends condenses and consolidates current information on polyolefins so that the reader can compare, select, and integrate a material solution. Focusing exclusively on the fundamental aspects as well as applications of polyolefin blends, this authoritative reference: \* Features an introductory chapter that serves as a guide to polyolefin blends \* Includes chapters covering formulation design, processing, characterization, modeling and simulation, engineering performance properties, and applications \* Covers polyolefin/polyolefin blends and polyolefin/non-polyolefin blends \* Discusses miscibility, phase behavior, functionalization, compatibilization, microstructure, crystallization, hierarchical morphology, and physical and mechanical properties \* Covers new research trends including in-situ reactor blending and reactive processing, such as compatibilization/functionalization in the melt \* Contains practical examples from open literature sources and commercial products With chapters contributed by leading experts from several countries, this is a must-have reference for scientists and engineers conducting research on polyolefin blends and for professionals in medical, packaging, and other commodity fields. It is also an excellent text for graduate students studying polymer science and polymer processing.

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**248,50 €**

232,24 € (zzgl. MwSt.)

*Lieferfrist: bis zu 10 Tage*

**Artikelnummer:** 9780471790587

**Medium:** Buch

**ISBN:** 978-0-471-79058-7

**Verlag:** Wiley

**Erscheinungstermin:** 01.12.2007

**Sprache(n):** Englisch

**Auflage:** 1. Auflage 2007

**Serie:** Wiley Series on Plastics

Engineering and Technology

**Produktform:** Gebunden

**Gewicht:** 1075 g

**Seiten:** 688

**Format (B x H):** 165 x 235 mm

