



Nanostructured Polymer Blends: Chapter 5. Nanofilled Thermoplastic-Thermoplastic Polymer Blends (Micro and Nano Technologies)

Roberto Scaffaro, Luigi Botta

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Nanofillers can play two important roles in polymer blends. The first is the improvement of various properties such as mechanical, barrier, thermal, flame retardancy, and electrical properties. The second is the modification of miscibility/compatibility and morphology of polymer blends. The mechanism of action of nanoparticles to modify the morphology, interfacial properties, and performance of immiscible polymer blends relies on their localization, their interactions with polymer components, and the way these additives disperse within the polymer blend. The objective of this chapter is to review the research on nanofilled thermoplastic/thermoplastic polymer blends, paying particular attention both to the distribution of nanoparticles inside a binary polymer blend and to the effect of nanofillers on the morphology and on the properties of the thermoplastic polymer blends. In a large majority of cases, thermoplastic polymer blends filled with nanoparticles show better compatibility in terms of morphology size than pure blends. Moreover, the formation of a cocontinuous structure is promoted by the presence of the nanofiller.

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