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Polymer Blends and Compatibilization 2018

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Message from the Guest Editors

Polymer Blends are a class of multiphase polymer materials that present intermediary properties among their components. Blending of commercial polymers is the most efficient and cheap method to produce new polymeric materials that meet specific requirements. However, achieving the desired properties—mechanical strength, toughness, durability, etc—depends mainly on the final morphology achieved from the blends which, in turn, depends on the chemical nature and molecular structure of the macromolecules of the components. The different chemical nature of the components leads, in most cases, to bad morphology with voids, defects and a lack of adhesion between the phases and consequent poor properties. Moreover, the dispersed droplets can coalesce during processing, changing the morphology of the blends. The morphology must be “stabilized” in order to avoid any change during processing.

For further information, please click:

http://www.mdpi.com/si/materials/poly_blends_compat

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Message from the Editor-in-Chief

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