



Mineral Fillers in Thermoplastics I: Raw Materials and Processing (Advances in Polymer Science) (Vol 139)

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In recent years, a growing number of engineering applications of light weight and energy efficient plastics can be found in high quality parts vital to the functioning of entire equipments and structures. Improved mechanical properties, especially balance of stiffness and toughness, are among the most frequently desired features of the new materials. In addition, reduced flammability is considered the single most important requirement for further expansion of plastics into large volume and demanding markets such as construction and mass transport. Production of power cables also requires flame retardant cable jacketing plastics to replace or at least to reduce consumption of environmentally unsound PVC. The two principal ways to achieve the goals mentioned above include the development of completely new thermoplastic polymers and various modifications of the existing ones. Development and commercialization of a new thermoplastic require mobilization of large human and financial resources, the latter being within the range from \$100 million to \$10 billion, in comparison to \$100 thousand to \$10 million needed to develop and commercialize polymeric material with prescribed end use properties using physical or chemical modification of an existing plastic. In addition, the various markets utilizing thermoplastics demand large flexibility in material properties with only moderate volumes, at the best.



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