

Compatibilization of PC/PMMA blend with organically modified montmorillonite

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The effect of organoclay on miscibility of polycarbonate (PC) /polymethylmethacrylate (PMMA) blends is studied. Twin-screw extrusion system was used to disperse OMMT in blends. DSC experiment was carried out to examine the effect of clay addition on glass transition temperature of PC/PMMA blends. Rheological properties of organoclay modified blends were measured by rotational rheometer. Moreover, modulus of each blends were checked by DMA. The morphology of OMMT modified PC/PMMA was studied using scanning electron microscopy. XRD was used to confirm structure of PC/PMMA blends with clays. In addition, we checked the effect of changing blending procedure on miscibility of PC/ PMMA blends.