

عنوان مقاله:

The effect of foam morphology of carbon black reinforced poly (methyl methacrylate) nanocomposites on electrical conductivity

محل انتشار:

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خلاصه مقاله:

The effect of carbon black content on the electrical properties of the nanocomposites was investigated. An improvement in electrical conductivity from insulating to conducting with increasing carbon black content was observed. The carbon black showed a classical percolating network behavior with a low percolation threshold. The present work is an attempt to investigate and designing a large panel of nanocomposites foams based on carbon black powder loaded poly (methyl methacrylate) (PMMA) using the supercritical carbon dioxide (scCO₂) technology.

The ultimate goal is to establish important relationships between the foam structure and their electrical conductivity

کلمات کلیدی:

Electrical conductivity, Carbon black, Poly (methyl methacrylate), foam morphology

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