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Recent advancement in polymer/halloysite nanotube nanocomposites for biomedical applications

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Abstract Halloysite nanotubes (HNTs) have recently been the subject of

extensive research as a reinforcing filler. HNT is a natural nanoclay,

non-toxic and biocompatible, hence, applicable in biomedical fields. This review focuses on the mechanical, thermal, and functional properties of polymer nanocomposites with HNT as a reinforcing agent from an experimental and theoretical perspective. In addition, this review also highlights the recent applications of polymer/HNT nanocomposites in the biomedical fields.

Keywords

Author Keywords: biomedical applications; halloysite nanotube; mechanical

properties; nanocomposites; thermal properties

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