研究简报

均苯四甲酸与对羟基吡啶超分子聚合物的制备

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摘要

关键词 超分子聚合物 氢键 结构 超分子性能

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SYNTHESIS OF SUPRAMOLECULAR POLYMER DRIVED FROM 1,2,4,5-BENZENE TETRACARBOXYLIC ACID AND 4-HYDROXY PYRIDINE

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 $\label{eq:Abstract} A \ \text{new kind of supramolecuIar building unit(defined as SBU)having two phenolic hydroxyl groups (proton donors) and two aromatic earbexyl groups (proton acceptors) was synthesized from 1,2,4,5-benzene tetraearboxylic acid and 4-hydmxy pyridine by a simple procedure. Based On 1H—NMR,IR,EA and XRD analyses,the structure of SBU was defined. Under suitable conditions, supramolecular gels and fibers were formed from the building unit through multiple hydrogen bends between the donors and the acceptors. These supramolecular structures demonstrated strong temperature dependant features.$

Key words Supramolecular polymer Hydrogen bond Structure Supramolecular property

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