

Synthesis and characterization of aliphatic polyimide for electronic materials

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In general, the polyimide(PI) films have good thermal stability, good mechanical strength. In electronic materials, polyimide shows good performance because of its properties. However, polyimide films have low water sorption property. For electrochemical usage of polyimide films, water sorption behavior is important factor. In this work, the polyimide films are synthesized from various dianhydrides and aliphatic diamines. To compare with aromatic polyimide, Kepton was synthesized with thermal imidization method. Water sorption behavior measured with Thin Film Water Sorption Analyzer(TFWA) which was self-developed.