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**A STUDY OF POLYMER CLASSIFICATION BASED ON MECHANISM OF
POLYMERIZATION**

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ABSTRACT

Low molecular weight chemicals may be transformed into larger ones by polymerization. Condensation polymers, addition polymers, and ring opening polymers are the three main types of polymers based on the process of polymerization. Certain atoms are absent from the repeating unit of a condensation polymer chain. When two functional monomer molecules with reactive functional groups react, they create condensation polymers. Condensation polymerization often results in gas, water, or salt being released. Polymers with a high molecular weight are created in the step-growth polymerization method. Unsaturated vinyl monomers and olefins are the starting materials for addition polymers. The chain reactions involving active centers are what causes them. Chain growth is seen in most addition polymers. During chain growth, polymers with large molecular weights are generated early in the polymerization process.