

Preface

Recently, the ranking of world institutions has been the front page news to all academicians, researchers, students and industrialists. Nowadays, innovation and constructive research are required in every field to survive globally. As a result, research has gained remarkable momentum in every aspect of science, engineering, technology and social sciences. All nations of the world are focusing on need-based research for further development. Research is the sense of mind, imagination and creation of a person which enumerates the results or shape to the reality. In true sense, research has multi-dimensional phases and approaches. Like in general, a physicist should prefer to work on physics route, a chemist on chemistry and so on. But there are many areas which are composite in nature, where it needs multi-talent expertise and it is only possible from researchers of various disciplines. Optically active polymers are such materials where a person of different fields of research can work. To carry out advanced studies or present need-based research, it is mandatory to understand the material first. Optically active materials can rotate into a plane of polarization and its activity originates from the presence of chiral elements in a polymer such as chiral centres or chiral axes due to long-range conformational order in a macromolecule. Surprisingly, most naturally occurring macromolecules possess the ability to organize to more complex high structure rather than single one and manifest their functions. The problems of charged and reactive polymers are correlated to optically active compounds and it shows an inherent property of both ordinary macromolecules and large range of synthetic polymers. It is true that the properties of a material depend on the synthesis methods. Hence to know all such characteristics, a good researcher should begin the study of optically active polymers in a systematic manner like from synthesis to property. The present brief entitled “Optically active polymers: A systematic study on syntheses and properties” is an attempt to provide the researchers of various backgrounds with a thorough understanding and knowledge of the optically active polymers with a special emphasis on syntheses and properties. We sincerely thank all learned researchers

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