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in summary the degradation of polymers and biopolymers is a complex process that can involve random scission depolymerisation and elimination of side groups leading to changes in polymer molecular weight and loss of useful properties such as colour mechanical strength and impact resistance protection of polymers against degradation polymer degradation is a complex process by which the polymer loses its original functional properties owing to irreversible changes in its structure polymer degradation and stability publishes articles which enhance and develop our fundamental understanding of degradation reactions their control or utilization for sustainability purposes including upcycling or recycling and material performance optimization via polymer design these are the abstract covers recent advances in polymer degradation and stabilization focuses on the basics of photo and bio degradability delineates special and general environmental parameters such as solar irradiation temperature and agrochemical exposure fresh polymers suffer degradation when exposed to weathering through various factors such as shear stress heat light air water oxygen radiation or mechanical loading which change the chemical composition and the molecular weight of the polymer leading to a degradation must be carefully monitored in order to evaluate the usefulness and service life of polymers in different applications as environmental concerns have increased new demands are placed on the prediction of long term properties of synthetic and natural polymers this perspective highlights recent trends challenges and future strategies on three levels 1 on the materials level by the incorporation of enzymes into polymer materials that catalyze polymer degradation under benign conditions 2 on the domain level crystalline segments of polymer materials are often inert even to enzymatically polymers degrade by several different mechanisms depending on structure and exposure conditions degradation results from an irreversible change which leads eventually to failure handbook of polymer degradation 2nd edition is written by s halim hamid and published by crc press the digital and etextbook isbn for handbook of polymer degradation are 9781482270181 1482270188 and the print isbn are 9780367398378 0367398370 3 3 1 2 open systems one may consider degradation in an open system from which monomer and other molecules up to $l-1$ monomer units long can evaporate while l and higher can not to make the computation relatively simple the artificial assumption of a sharp cutoff is made all molecules up to $l-1$ and none of $dp \geq l$ evaporate thermal degradation of polymeric materials second edition offers a wealth of information for polymer researchers and processors who require a thorough understanding of the implications handbook of polymer degradation second edition covers recent advances in polymer degradation and stabilization focuses on the basics of photo and bio degradability delineates special the destruction of polymers under the influence of ultraviolet uv radiation is the cause of their aging and deterioration of strength properties asphaltene are low value waste products after the polymer degradation is the reduction in the physical properties of a polymer such as strength caused by changes in its chemical composition polymers and particularly plastics are subject to degradation at all stages of their product life cycle including during their initial processing use disposal into the environment and recycling handbook of polymer degradation 2nd edition book reviews published in iee electrical insulation magazine volume 17 issue 6 nov dec 2001 article handbook of polymer degradation covers recent advances in polymer degradation and stabilization focuses on the basics of photo and bio degradability delineates special and general about one third of the 36 chapters in this book pertain to rubber natural rub bers modified natural rubber blends of rubbers and rubber with other polymers and recycling of rubber the the purpose of this special issue is to conduct a comprehensive investigation into the complex processes in the degradation of various polymers with special emphasis on the identification characterization and investigation of the impact of microplastics on the environment

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