

















	Oxidative degradation – main mechanism for most polymers			
	Initiation	RH \rightarrow	R∙	
	Propagation			
	Termination		$RR RO_2R + O_2 ROH + -CO- + O_2$	
re	The kinetics of oxidative degradation are complex, with multistage reactions that can end in either scission of the long chains or cross- linking between chains			10





















Factors affecting lifetime of polymeric components under irradiation Diffusion-limited oxidation must be taken into account in any simulation of service conditions (both for thermal and radiation degradation) Radiation dose rate effects particularly in accelerated testing Synergy between radiation and temperature Reverse temperature effect Polymer formulations











































