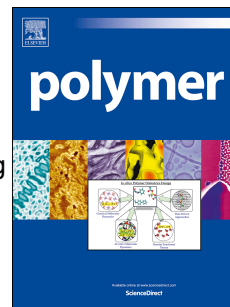


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Theoretical study on the reaction of maleic anhydride in the UV radiation cross-linking process of polyethylene

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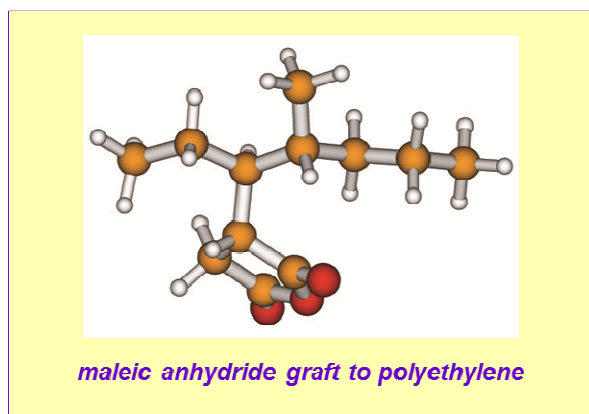
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Graphical Abstract



The theoretical investigation on the grafting of maleic anhydride onto polyethylene during UV radiation cross-linking reaction process is accomplished at B3LYP/6-311+G(d,p) level. It is expected to provide reliable information for development insulation materials of high-voltage cable exceed 500 kV in real applications.

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