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Abstract of the disclosure

The present invention relates to a process for the preparation of a grafted polymer wherein in a first step

A) a stable nitroxyl radical is grafted onto a polymer, which step comprises heating a polymer and a nitroxyl-ether containing a group ($=\text{NO-X}$), wherein

X is selected such, that cleavage of the O-X bond occurs and a radical $\text{X}\cdot$ is formed at about the melting temperature of the polymer; and in a second step

B) the grafted polymer of step A) is heated in the presence of an ethylenically unsaturated monomer or oligomer to a temperature at which cleavage of the nitroxyl-polymer bond occurs and polymerization of the ethylenically unsaturated monomer or oligomer is initiated at the polymer radical; maintaining said temperature for further polymerization and afterwards cooling down the mixture to a temperature below 60°C .

Further subjects are grafted thermoplastic polymers prepared by said process, the intermediate polymeric radical initiator, the use of the polymeric radical initiator and the use of NO-ethers for grafting thermoplastic polymers.



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