

Free radical polymerization of ethylene initiated by
organic peroxides with high productivity

Abstract

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The invention relates to a method for manufacturing
polyethylene or an ethylene copolymer, including a step of
free radical polymerisation or copolymerisation of the
ethylene at an initiation temperature varying from 150°C
10 to 200°C, at a pressure varying from 500 to 3000 bar, in
the presence of a peroxidic polymerisation initiator
selected from among the peroxide compounds of formula (I)
in which R1 and R8 are, separately, a C2-C6 alkyl group;
R2, R3, R6 and R7 are, separately, a C1-C5 alkyl group;
15 and R4 and R5 are, separately, a C1-C6 alkyl group.

(Fig. I)