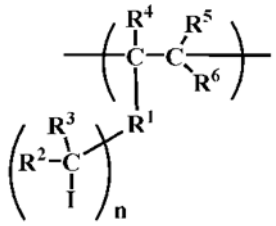
CLAIMS

1. A method for manufacturing a graft polymer comprising

performing a living radical polymerization of a compound with a vinyl monomer by an organic catalyst containing any of an organophosphorus compound, an organic oxygen compound, an organic sulfur compound, or an organic nitrogen compound (containing any of amines, imides, ammonium salts, iodinated amines, or iodinated imides) to manufacture the graft polymer, the compound having a recurring unit represented by a formula (1) below in a main chain.

[Chem. 11]



..... (1)

n = 1

Here, R^1: -COO-$(CH_2)_a$-OCO-

R^2, R^3: an aromatic group, an aliphatic group

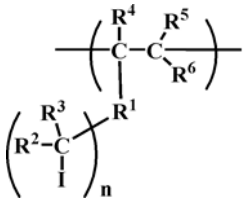
R^4, R^5, R^6: a hydrogen atom, an aliphatic group

a = 2 to 5

2. The method for manufacturing the graft polymer according to claim 1, wherein the living radical polymerization is performed with the organic catalyst containing any of an amine compound, a phosphine compound, a phosphonate compound, a phosphonium salt, an iodoimido compound, or an ammonium compound.

3. An initiator of a graft polymer used as an initiator for a living radical polymerization with a vinyl monomer in the method for manufacturing the graft polymer according to claim 1 or 2, the initiator of the graft polymer having the recurring unit represented by the formula (1) below in the main chain.

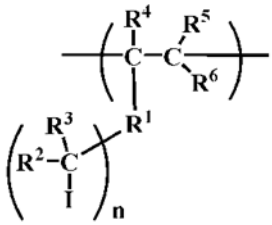
[Chem. 12]



…… (1)

4. An initiator of a graft polymer used as an initiator for a living radical polymerization with a vinyl monomer by an organic catalyst containing any of an organophosphorus compound, an organic oxygen compound, an organic sulfur compound, or an organic nitrogen compound (containing any of amines, imides, ammonium salts, iodinated amines, or iodinated imides), the initiator of the graft polymer having a recurring unit represented by a formula (1) below in a main chain.

[Chem. 13]



…… (1)

n = 1

Here, R^1: -COO-$(CH_2)_a$-OCO-

R^2, R^3, R^4, R^5, R^6: a hydrogen atom, an aromatic group, an aliphatic group

a = 2 to 5