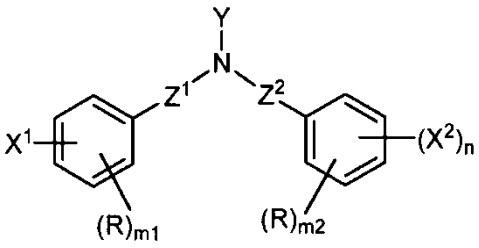
independently represent any integer of 0 to 4; and Y represents a polymerizable functional group).

(12) A polymer having a repeating unit derived from a polymerizable compound of formula (I):



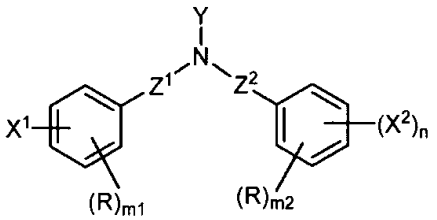
(I)

(wherein X^1 and X^2 each independently represent a C7 to C20 alkyl group or a C7 to C20 alkoxy group; n represents 0 or 1; Z^1 and Z^2 each independently represent a single bond or a C1 to C3 alkylene group; R each independently represents an organic group or a halogeno group; m1 and m2 each independently represent any integer of 0 to 4; and Y represents a polymerizable functional group).

(13) A molded body ~~in which a film~~ obtained by coating the adhesive composition according to ~~claim~~ (1) to a plastic substrate and curing the adhesive composition.

[0006a]

In one aspect, there is provided an adhesive composition, comprising a polymer having a repeating unit derived from a polymerizable compound of formula (I):

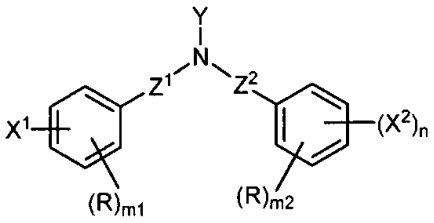


(I)

wherein X^1 and X^2 each independently represent a C7 to C20 alkyl group or a C7 to C20 alkoxy group; n represents 0 or

1; Z^1 and Z^2 each independently represent a single bond or a C1 to C3 alkylene group; R each independently represents an organic group or a halogeno group; m1 and m2 each independently represent any integer of 0 to 4; and Y represents an acryloyl group or a methacryloyl group.

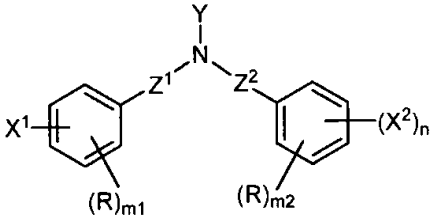
In another aspect, there is provided a compound of formula (I):



(I)

wherein X^1 and X^2 each independently represent a C7 to C20 alkyl group or a C7 to C20 alkoxy group; n represents 0 or 1; Z^1 and Z^2 each independently represent a single bond or a C1 to C3 alkylene group; R each independently represents an organic group or a halogeno group; m1 and m2 each independently represent any integer of 0 to 4; and Y represents an acryloyl group or a methacryloyl group.

In yet another aspect, there is provided a polymer having a repeating unit derived from a polymerizable compound of formula (I):



(I)

wherein X^1 and X^2 each independently represent a C7 to C20 alkyl group or a C7 to C20 alkoxy group; n represents 0 or 1; Z^1 and Z^2 each independently represent a single bond or a C1 to C3 alkylene group; R each independently represents an organic group or a halogeno group; m1 and m2 each independently represent any integer of 0 to 4; and Y represents an acryloyl group or a methacryloyl group.

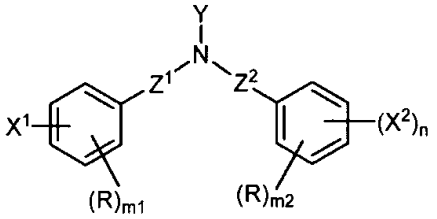
Effect of the Invention

[0007]

A coating film having excellent adhesive properties and adhesiveness to a plastic substrate, particularly a substrate of a polyolefine such as polycycloolefin, polyethylene, or polypropylene may be formed by using the adhesive composition of the present invention. Conventionally, there has been no adhesive composition that may be widely used for substrates of these various plastics, but the adhesive composition of the present invention may be used in that way. A functional film that may not be conventionally directly formed on a plastic substrate may be laminated via a coating film of the

CLAIMS

1. An adhesive composition, comprising a polymer having a repeating unit derived from a polymerizable compound of formula (I):

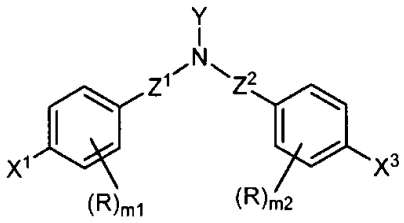


(I)

wherein X^1 and X^2 each independently represent a C7 to C20 alkyl group or a C7 to C20 alkoxy group; n represents 0 or 1; Z^1 and Z^2 each independently represent a single bond or a C1 to C3 alkylene group; R each independently represents an organic group or a halogeno group; m1 and m2 each independently represent any integer of 0 to 4; and Y represents an acryloyl group or a methacryloyl group~~a polymerizable functional group~~.

~~2. The adhesive composition according to claim 1, wherein in formula (I), Y is an acryloyl group or a methacryloyl group.~~

~~3~~2. The adhesive composition according to claim 1~~ or 2~~, wherein the polymerizable compound of formula (I) is a compound of formula (II):



(II)

wherein X^1 represents a C7 to C20 alkyl group or a C7 to C20 alkoxy group; X^3 represents a C7 to C20 alkyl group, a C7 to C20 alkoxy group, a hydrogen atom, an organic group, or a halogeno group; Z^1 and Z^2 each independently represent a single bond or a C1 to C3 alkylene group; R each independently represents an organic group or a halogeno group; m1 and m2 each independently represent any integer of 0 to 4; and Y represents an acryloyl group or a methacryloyl group~~a polymerizable functional group~~.

~~4~~3. The adhesive composition according to ~~any one of~~ claims 1 ~~to 3~~or 2, wherein the C7 to C20 alkyl group and the C7 to C20 alkoxy group are branched.

~~5~~4. The adhesive composition according to ~~any one of~~ claims 1 to ~~4~~3, wherein the adhesive composition is an adhesive composition for a plastic substrate.

~~6~~5. The adhesive composition according to claim ~~5~~4, wherein the plastic substrate is a polyolefin substrate.

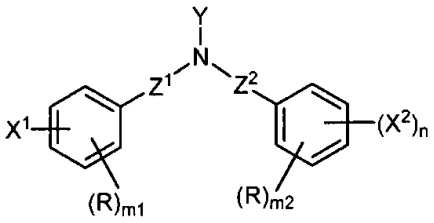
~~7~~6. The adhesive composition according to claim ~~5~~4, wherein the plastic substrate is a polypropylene substrate or a polyethylene substrate.

~~8~~7. The adhesive composition according to claim ~~5~~4, wherein the adhesive composition is a coating agent.

~~9~~8. The adhesive composition according to claim ~~8~~7, wherein the coating agent is a primer.

~~10~~9. The adhesive composition according to claim ~~5~~4, wherein the adhesive composition is an adhesive.

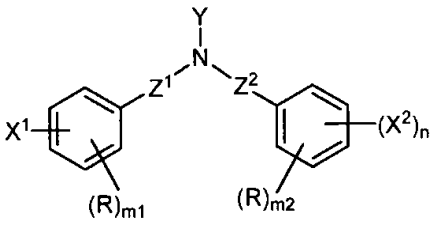
~~11~~10. A compound of formula (I):



(I)

wherein X^1 and X^2 each independently represent a C7 to C20 alkyl group or a C7 to C20 alkoxy group; n represents 0 or 1; Z^1 and Z^2 each independently represent a single bond or a C1 to C3 alkylene group; R each independently represents an organic group or a halogeno group; m1 and m2 each independently represent any integer of 0 to 4; and Y represents an acryloyl group or a methacryloyl group~~a polymerizable functional group~~.

~~12~~11. A polymer having a repeating unit derived from a polymerizable compound of formula (I):



(I)

wherein X^1 and X^2 each independently represent a C7 to C20 alkyl group or a C7 to C20 alkoxy group; n represents 0 or 1; Z^1 and Z^2 each independently represent a single bond or a C1 to C3 alkylene group; R each independently represents an organic group or a halogeno group; m1 and m2 each independently represent any integer of 0 to 4; and Y represents an acryloyl group or a methacryloyl group~~a polymerizable functional group~~.

~~13~~12. A molded body ~~in which a film~~ obtained by coating the adhesive composition according to claim 1 to a plastic substrate and curing the adhesive composition.