[0004]

Patent Literature 1: JP H11-302973 A

Patent Literature 2: JP H11-199632 A

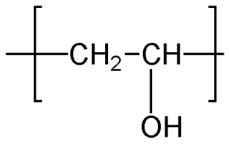
SUMMARY

[0004a]

The present disclosure refers to a vinyl alcohol-amino acid ester copolymer comprising

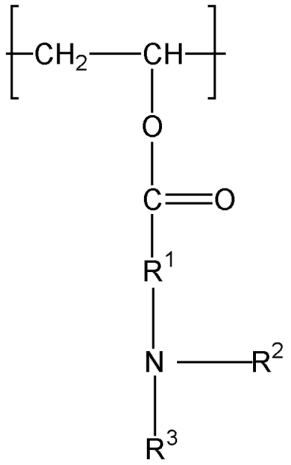
a unit represented by the following formula (1) and a unit represented by the following formula (2):

[Chem. 1]



(1)

[Chem. 2]



(2)

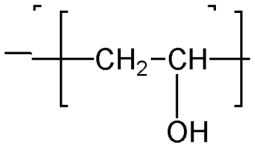
where, in the formula (2), R^1 represents a hydrocarbon group that may optionally have a substituent, R^2 and R^3 each independently represent a hydrogen atom or a hydrocarbon group, and R^1 and R^2, or R^2 and R^3, may optionally be bonded together to form a cyclic structure, wherein the content of the unit represented by the formula (2) is 10 to 99.9 mol%.

CLAIMS

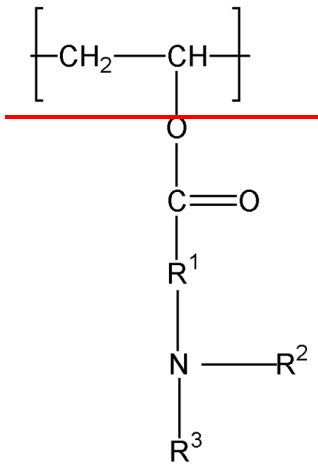
Claim 1. A vinyl alcohol-amino acid ester copolymer comprising

a unit represented by the following formula (1) and a unit represented by the following formula (2):

[Chem. 1]

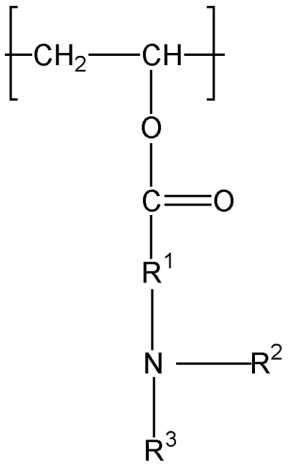


(1)



(2)

[Chem. 2]



(2)

where, in the formula (2), R^1 represents a hydrocarbon group that may optionally have a substituent, R^2 and R^3 each independently represent a hydrogen atom or a hydrocarbon group, and R^1 and R^2, or R^2 and R^3, may optionally be bonded together to form a cyclic structure~~.~~, wherein the content of the unit represented by the formula (2) is 10 to 99.9 mol%.

Claim 2.~~—~~The vinyl alcohol-amino acid ester copolymer according to claim 1,

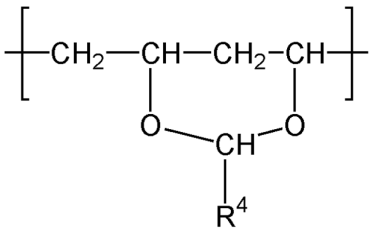
wherein the content of the unit represented by the formula (1) is 0.1 to ~~99.5~~90 mol%.

Claim 3. The vinyl alcohol-amino acid ester copolymer according to claim 1 or 2,

wherein the content of the unit represented by the formula (2) is ~~0.1~~10 to 99.5 mol%.

Claim 4. The vinyl alcohol-amino acid ester copolymer according to claim 1, 2, or 3, further comprising a unit represented by the following formula (3):

[Chem.~~—2~~3]



(3)

wherein R^4 represents a hydrogen atom or a C1-C20 alkyl group.

Claim 5. The vinyl alcohol-amino acid ester copolymer

according to claim 4,

wherein the content of the unit represented by the formula (3) is 0.5 to 90 mol%.

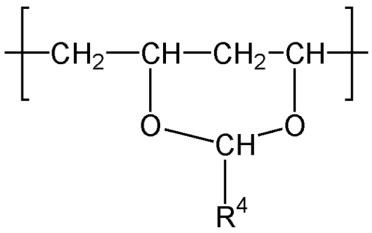
Claim 6. The vinyl alcohol-amino acid ester copolymer according to claim 1, 2, 3, or 4,

wherein, in the unit represented by the formula (2), R^1 represents divalent hydrocarbon group that may optionally have a substituent, and R^2 and R^3 each represent a hydrogen atom or an alkyl group.

Claim 7.The vinyl alcohol-amino acid ester copolymer according to claim 1, 2, or 3, consisting of a unit represented by the formula (1) and a unit represented by the formula (2).

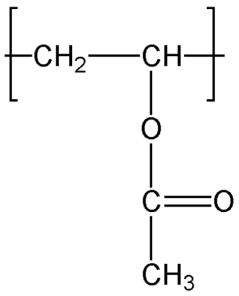
Claim 8. The vinyl alcohol-amino acid ester copolymer according to claim 7, further consisting of at least one kind selected from the group consisting of a unit represented by the following formula (3) and a unit represented by the following formula (4).

[Chem. 3]



(3)

[Chem. 4]



(4)