[0004]

Patent Literature 1: JP H11-302973 A

Patent Literature 2: JP H11-199632 A

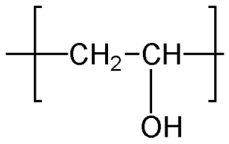
SUMMARY

[0004a]

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

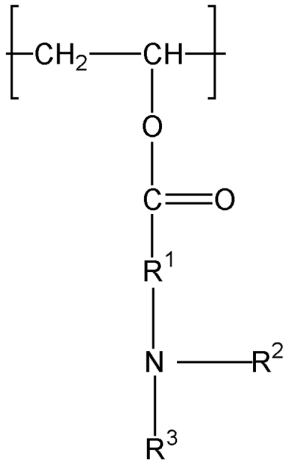
a unit represented by the following formula (1) and a unit represented by the following formula (2):

[Chem. 1]



(1)

[Chem. 2]



(2)

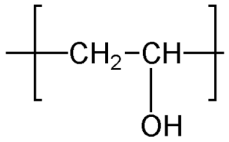
where, in the formula (2), R^1 represents a hydrocarbon group that may optionally have a substituent, R^2 and R^3 each independently represent a hydrogen atom or a hydrocarbon group, and R^1 and R^2, or R^2 and R^3, may optionally be bonded together to form a cyclic structure, wherein the content of the unit represented by the formula (2) is 10 to 80 mol%.

CLAIMS

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

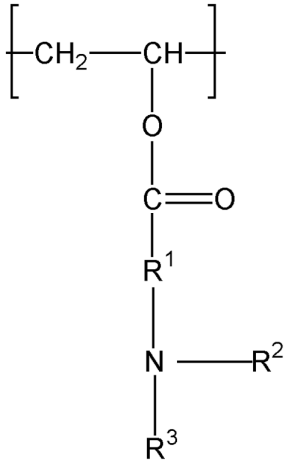
a unit represented by the following formula (1) and a unit represented by the following formula (2):

[Chem. 1]



(1)

[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 80 mol%.

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

wherein the content of the unit represented by the

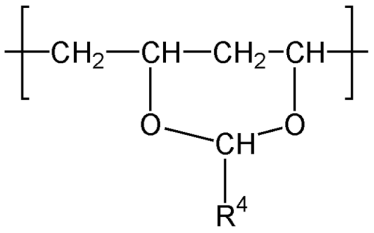
formula (1) is 0.1 to 90 mol%.

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 10 to 70 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.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,

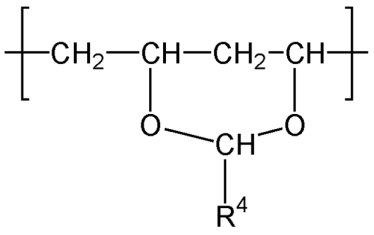
wherein, in the unit represented by the formula (2), R^1 represents divalent hydrocarbon group that may optionally have a substituent, and R^2 and R^3 each represent a hydrogen atom or an alkyl group.

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).

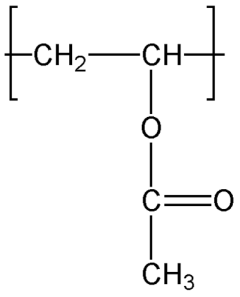
Claim 8. The vinyl alcohol–amino acid ester copolymer according to claim 7, further consisting of at least one kind selected from the group consisting of a unit represented by the following formula (3) and a unit represented by the following formula (4).

[Chem. 3]



(3)

[Chem. 4]



(4)