CLAIMS

1. A polymer comprising:

a first structural unit represented by at least one of formulae (1-1), (1-2) and (1-3) below; and

a second structural unit represented by formula (2-A) below:

in formulae (1-1) to (1-3), R^1 is each independently a halogen atom, a monovalent hydrocarbon group having 1 to 20 carbon atoms, a monovalent halogenated hydrocarbon group having 1 to 20 carbon atoms, a nitro group, a cyano group, any of primary to tertiary amino groups or a salt of any of primary to tertiary amino groups; n is each independently an integer of 0 to 2; and when n is 2, two or more R^1 may be the same or different and may be joined together in any combination to form a part of a cyclic structure,

in formula (2-A), R^2 and R^3 are respectively and independently a hydrogen atom or a monovalent hydrocarbon group having 1 to 20 carbon atoms; and X is a bivalent organic group.

2. The polymer according to claim 1, wherein X in formula (2-A) is a group represented by formulae (2-1) to (2-8) below, a bivalent hydrocarbon group having 1 to 20 carbon atoms, a bivalent halogenated hydrocarbon group having 1 to 20 carbon

atoms or a 3- to 10-membered bivalent heterocyclic group

in formula (2-1), R^4 and R^5 are respectively and independently a halogen atom, a monovalent hydrocarbon group having 1 to 20 carbon atoms, a monovalent halogenated hydrocarbon group having 1 to 20 carbon atoms, an alkoxy group having 1 to 20 carbon atoms, an alkylthio group having 1 to 20 carbon atoms, a nitro group, a cyano group, a carboxy group, a sulfonic acid group, a phosphonic acid group, a phosphoric acid group, a hydroxy group, any of primary to tertiary amino groups, a salt of carboxy group, a salt of sulfo group, a salt of phosphonic acid group, a salt of phosphate group, a salt of hydroxy group or a salt of any of primary to tertiary amino groups; c and d are respectively and independently an integer of 0 to 2; a and b are respectively and independently an integer of 0 to 8; when a is 2 or more, two or more R^4 may be the same or different and may be joined together in any combination to form a part of a cyclic structure; when b is 2 or more, two or more R^5 may be the same or different and may be joined together in any combination to form a part of a cyclic structure; Q and Z are respectively and independently a single bond, -O-, -S- or -N(R^{17})-; R^{17} is a hydrogen atom, a monovalent hydrocarbon group having 1 to 20 carbon atoms or a monovalent halogenated hydrocarbon group having 1 to 20 carbon atoms; L is a single bond or a bivalent organic group; y is an integer of 0 to 5; when y is 2 or more, two or more Q, L and Z may be respectively the same or different.; when y is 2 or more and a is 1 or more, two or more R^4 may be the same or different; R^6 and R^7 are respectively and independently a single bond, a methylene group or an alkylene group having 2 to 4 carbon atoms;

in formula (2-2), R^a and R^b are respectively and independently a 5- to 30-membered bivalent alicyclic hydrocarbon skeleton; R^8 and R^9 are respectively and independently a halogen atom, a monovalent hydrocarbon group having 1 to 20 carbon atoms, a monovalent halogenated hydrocarbon group having 1 to 20 carbon atoms, an alkoxy group having 1 to 20 carbon atoms, an alkylthio group having 1 to 20 carbon atoms, a nitro group, a cyano group, a carboxy group, a sulfonic acid group, a phosphonic acid group, a phosphoric acid group, a hydroxy group, any of primary to tertiary amino groups, a salt of carboxy group, a salt of sulfo group, a salt of phosphonic acid group, a salt of phosphate group, a salt of hydroxy group or a salt of any of primary to tertiary amino groups; e and f are respectively and independently an integer of 0 to 20; when e is 2 or more, two or more R^8 may be the same or different and may be joined together in any combination to form a part of a cyclic structure; when f is 2 or more, two or more R^9 may be the same or different and may be joined together in any combination to form a part of a cyclic structure; Q and Z are respectively and independently a single bond, -O-, -S- or -N(R^{18})-; R^{18} is a hydrogen atom, a monovalent hydrocarbon group having 1 to 20 carbon atoms or a monovalent halogenated hydrocarbon group having 1 to 20 carbon atoms; L is a single bond or a bivalent organic group; y is an integer of 0 to 5; when y is 2 or more, two or more Q, L and Z may be respectively the same or different; when y is 2 or more and e is 1 or more, two or more R^8 may be the same or different; R^{10} and R^{11} are respectively and independently a single bond, a methylene group or an alkylene group having 2 to 4 carbon atoms;

in formula (2-3), R^{12} is a hydrogen atom, a monovalent hydrocarbon group having 1 to 20 carbon atoms or a monovalent halogenated hydrocarbon group having 1 to 20 carbon atoms; R^{13} and R^{14} are respectively and independently a bivalent linear or alicyclic hydrocarbon group having 1 to 20 carbon atoms or a bivalent linear or alicyclic halogenated hydrocarbon group having 1 to 20 carbon atoms; g is 0 or 1; h is an integer of 1 to 10; and when h is 2 or more, two or more R^{12} and R^{14} may be respectively the same or different;

in formula (2-4), R^{15} and R^{16} are respectively and independently a bivalent linear or alicyclic hydrocarbon group having 1 to 20 carbon atoms or a bivalent linear or alicyclic halogenated hydrocarbon group having 1 to 20 carbon atoms; i is 0 or 1; j is an integer of 1 to 10; and when j is 2 or more, two or more R^{16} may be the same or different;

in formula (2-5), R^{21} and R^{22} are respectively and independently a halogen atom, a monovalent hydrocarbon group having 1 to 20 carbon atoms, a monovalent halogenated hydrocarbon group having 1 to 20 carbon atoms, an alkoxy group having 1 to 20 carbon atoms, an alkylthio group having 1 to 20 carbon atoms, a nitro group, a cyano group, a carboxy group, a sulfonic acid group, a phosphonic acid group, a

phosphoric acid group, a hydroxy group, any of primary to tertiary amino groups, a salt of carboxy group, a salt of sulfo group, a salt of phosphonic acid group, a salt of phosphate group, a salt of hydroxy group or a salt of any of primary to tertiary amino groups; k and l are respectively and independently an integer of 0 to 3; when k is 2 or 3, two or more R^{21} may be the same or different; when l is 2 or 3, two or more R^{22} may be the same or different; R^{23} is a single bond, -O-, -S-, -C(O)-, -S(O)- or $-S(O)_2-$;

in formula (2-6), R^{24} and R^{25} are respectively and independently a halogen atom, a monovalent hydrocarbon group having 1 to 20 carbon atoms, a monovalent halogenated hydrocarbon group having 1 to 20 carbon atoms, an alkoxy group having 1 to 20 carbon atoms, an alkylthio group having 1 to 20 carbon atoms, a nitro group, a cyano group, a carboxy group, a sulfonic acid group, a phosphonic acid group, a phosphoric acid group, a hydroxy group, any of primary to tertiary amino groups, a salt of carboxy group, a salt of sulfo group, a salt of phosphonic acid group, a salt of phosphate group, a salt of hydroxy group or a salt of any of primary to tertiary amino groups; m and n are respectively and independently an integer of 0 to 3; when m is 2 or 3, two or more R^{24} may be the same or different; when n is 2 or more, two or more R^{25} may be the same or different; R^{26} and R^{27} are respectively and independently a single bond, -O-, -S-, -C(O)-, -S(O)- or $-S(O)_2-$;

in formula (2-7), R^{28} and R^{29} are respectively and independently a halogen atom,

a monovalent hydrocarbon group having 1 to 20 carbon atoms, a monovalent halogenated hydrocarbon group having 1 to 20 carbon atoms, an alkoxy group having 1 to 20 carbon atoms, an alkylthio group having 1 to 20 carbon atoms, a nitro group, a cyano group, a carboxy group, a sulfonic acid group, a phosphonic acid group, a phosphoric acid group, a hydroxy group, any of primary to tertiary amino groups, a salt of carboxy group, a salt of sulfo group, a salt of phosphonic acid group, a salt of phosphate group, a salt of hydroxy group or a salt of any of primary to tertiary amino groups; o is an integer of 0 to 3; p is an integer of 0 to 4; when o is 2 or more, two or more R^{28} may be the same or different; when p is 2 or more, two or more R^{29} may be the same or different; n is an integer of 0 to 6; R^{30} is a monovalent hydrocarbon group having 1 to 20 carbon atoms or a monovalent halogenated hydrocarbon group having 1 to 20 carbon atoms; q is an integer of 0 to 15; when q is 2 or more, two or more R^{30} may be the same or different; and

in formula (2-8), R^{31} and R^{32} are respectively and independently a halogen atom, a monovalent hydrocarbon group having 1 to 20 carbon atoms, a monovalent halogenated hydrocarbon group having 1 to 20 carbon atoms, an alkoxy group having 1 to 20 carbon atoms, an alkylthio group having 1 to 20 carbon atoms, a nitro group, a cyano group, a carboxy group, a sulfonic acid group, a phosphonic acid group, a phosphoric acid group, a hydroxy group, any of primary to tertiary amino groups, a salt of carboxy group, a salt of sulfo group, a salt of phosphonic acid group, a salt of phosphate group, a salt of hydroxy group or a salt of any of primary to tertiary amino groups; r and s are respectively and independently an integer of 0 to 4; when r is 2 or more, two or more R^{31} may be the same or different; when s is 2 or more, two or more

R^{32} may be the same or different; m is an integer of 1 to 5; n is an integer of 0 to 5; R^{33} is a monovalent hydrocarbon group having 1 to 20 carbon atoms or a monovalent halogenated hydrocarbon group having 1 to 20 carbon atoms; t is an integer of 0 to 20; when t is 2 or more, two or more R^{33} may be the same or different.

3. The polymer according to claim 2, wherein X in the formula (2-A) is a group represented by formulae (2-1) to (2-4), a bivalent hydrocarbon group having 1 to 20 carbon atoms, a bivalent halogenated hydrocarbon group having 1 to 20 carbon atoms or a 3- to 10-membered bivalent heterocyclic group.

4. The polymer according to any one of claims 1 to 3, wherein a weight average molecular weight based on polystyrene is 500 to 600,000 inclusive.

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5. A composition comprising the polymer according to any one of claims 1 to 4 and an organic solvent.

6. A molded article comprising the polymer according to any one of claims 1 to 4.