CLAIMS

[Claim 1]

A polyester resin composition comprising a polyester resin (A) and a dye (B), which is characterized in that

the polyester resin (A) has a dicarboxylic acid constituent unit and a diol constituent unit,

the dicarboxylic acid constituent unit is a terephthalic acid unit and/or a 2,6-naphthalenedicarboxylic acid unit,

5% to 90% by mole of the diol constituent unit is a unit derived from a diol having a cyclic acetal skeleton represented by the following general formula (1) or general formula (2), and 5% to 90% by mole of the diol constituent unit is a unit derived from an alicyclic diol,

the dye (B) is a combination of Solvent Blue RR and Solvent Violet 36, a combination of Solvent Blue 97 and Solvent Violet 36, or a combination of Reactive Red 2 and Solvent Blue 104,

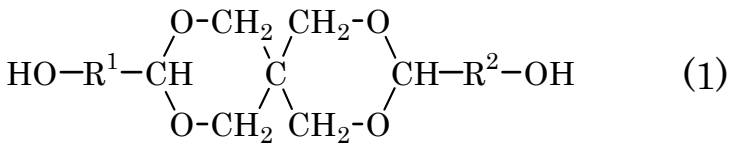
the mixing ratio (unit: mass) of Solvent Blue RR and Solvent Violet 36 is Solvent Blue RR : Solvent Violet 36 = 70 to 50 : 30 to 50,

the mixing ratio (unit: mass) of Solvent Blue 97 and Solvent Violet 36 is Solvent Blue 97 : Solvent Violet 36 = 70 to 50 : 30 to 50,

the mixing ratio (unit: mass) of Reactive Red 2 and Solvent Blue 104 is Solvent Blue 104 : Reactive Red 2 = 70 to 50 : 30 to 50, and

the polyester resin composition contains the dye (B) in an amount of 0.5 ppm or more and 10 ppm or less:

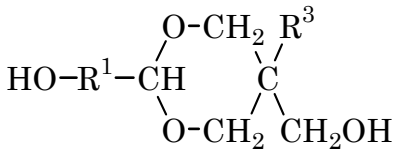
[Formula 1]



(1)

wherein, in the formula (1), R^1 and R^2 each independently represent an aliphatic group containing 1 to 10 carbon atoms, an alicyclic group containing 3 to 10 carbon atoms, or an aromatic group containing 6 to 10 carbon atoms,

[Formula 2]



(2)

wherein, in the formula (2), R^1 is the same as that described above, R^3 represents an aliphatic group containing 1 to 10 carbon atoms, an alicyclic group containing 3 to 10 carbon atoms, or an aromatic group containing 6 to 10 carbon atoms.

[Claim 2]

A polyester resin composition comprising a polyester resin (A) and a dye (B), which is characterized in that

the polyester resin (A) has a dicarboxylic acid constituent unit and a diol constituent unit,

the dicarboxylic acid constituent unit is a terephthalic acid unit and/or a 2,6-naphthalenedicarboxylic acid unit,

5% to 90% by mole of the diol constituent unit is a unit derived from a diol having a cyclic acetal skeleton represented by the following general formula (1) or general formula (2), and 5% to 90% by mole of the diol constituent unit is a unit derived from an alicyclic diol,

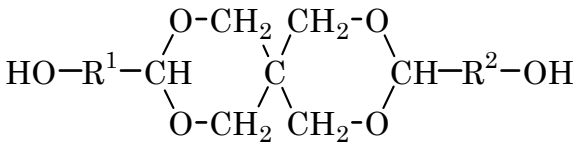
the dye (B) is a combination of the compound of the following formula (3) and the compound of the following formula (4), or a combination of the compound of the following formula (5) and the compound of the following formula (6),

the mixing ratio (unit: mass) of the compound of the following formula (3) and the compound of the following formula (4) is the compound of the following formula (3) : the compound of the following formula (4) = 70–50 : 30–50,

the mixing ratio (unit: mass) of the compound of the following formula (5) and the compound of the following formula (6) is the compound of the following formula (6) : the compound of the following formula (5) = 70–50 : 30–50, and

the polyester resin composition contains the dye (B) in an amount of 0.5 ppm or more and 10 ppm or less:

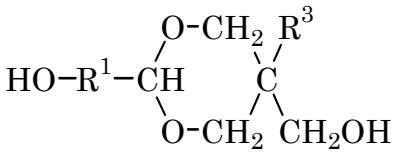
[Formula 3]



(1)

wherein, in the formula (1), R^1 and R^2 each independently represent an aliphatic group containing 1 to 10 carbon atoms, an alicyclic group containing 3 to 10 carbon atoms, or an aromatic group containing 6 to 10 carbon atoms,

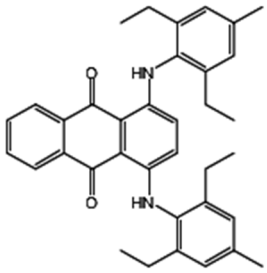
[Formula 4]



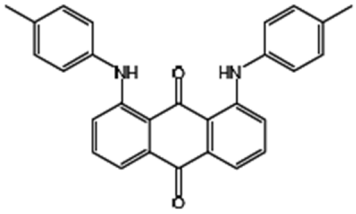
(2)

wherein, in the formula (2), R^1 is the same as that described above, R^3 represents an aliphatic group containing 1 to 10 carbon atoms, an alicyclic group containing 3 to 10 carbon atoms, or an aromatic group containing 6 to 10 carbon atoms.

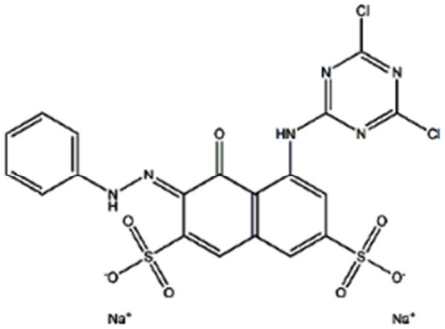
[Formula 5]



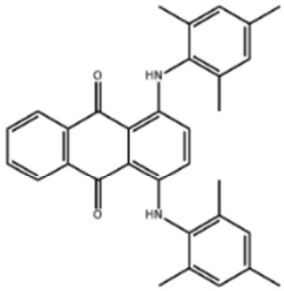
(3)



(4)



(5)



(6)

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[Claim 3]

The polyester resin composition according to claim 1 or 2, wherein the diol having a cyclic acetal skeleton is 3,9-bis(1,1-dimethyl-2-hydroxyethyl)-2,4,8,10-tetraoxaspiro[5.5]undecane, and the alicyclic diol is 1,4-cyclohexanedimethanol.

[Claim 4]

The polyester resin composition according to claim 1 or 2, wherein the dicarboxylic acid constituent unit is a 2,6-naphthalenedicarboxylic acid unit.

[Claim 5]

The polyester resin composition according to claim 1 or 2, wherein the content of polycarbodiimide in the polyester resin composition is less than 0.1% by mass.

[Claim 6]

A molded product, which uses the polyester resin composition according to claim 1 or 2.

[Claim 7]

A container, which uses the polyester resin composition according to claim 1 or 2.

[Claim 8]

A baby bottle, which uses the polyester resin composition according to claim 1 or 2.