CLAIMS

1. An optical styrene-based resin composition, containing a styrene-based resin (A) and a hindered amine light stabilizer (B), wherein:

the styrene-based resin (A) is a copolymer containing a styrene-based monomer unit and a (meth)acrylic acid ester-based monomer unit;

the copolymer contains 85 to 20 mass% of the styrene-based monomer unit and 15 to 80 mass% of the (meth)acrylic acid ester-based monomer unit in 100 mass% of the copolymer;

the optical styrene-based resin composition contains 0.001 to 1.0 parts by mass of the hindered amine light stabilizer (B) with respect to 100 parts by mass of the styrene-based resin (A); and

the hindered amine light stabilizer (B) comprises an N-R type hindered amine light stabilizer (provided, however, that the optical styrene-based resin composition, containing 10 to 60 parts by mass of a graft copolymer obtained by graft copolymerizing a monomer mixture containing at least a styrene-based monomer and a (meth)acrylic acid ester-based monomer in presence of a rubbery polymer, and 40 to 90 parts by mass of the styrene resin (A), is excluded).

2. An optical styrene-based resin composition, containing a styrene-based resin (A) and a hindered amine light stabilizer (B), wherein:

the styrene-based resin (A) is a copolymer containing a styrene-based monomer unit and a (meth)acrylic acid ester-based monomer unit;

the copolymer contains 85 to 45 mass% of the styrene-based monomer unit and 15 to 55 mass% of the (meth)acrylic acid ester-based monomer unit in 100 mass% of the copolymer;

the optical styrene-based resin composition contains 0.001 to 1.0 parts by mass of the hindered amine light stabilizer (B) with respect to 100 parts by mass of the styrene-based resin (A); and

the hindered amine light stabilizer (B) comprises an N-R type hindered amine light stabilizer.

3. The optical styrene-based resin composition of Claim 1 or 2, wherein the hindered amine light stabilizer (B) is the N-R type hindered amine light stabilizer.

4. The optical styrene-based resin composition of Claim 1 or 2,

wherein the N-R type hindered amine light stabilizer is at least one selected from a group consisting of: methyl(1,2,2,6,6-pentamethylpiperidin-4-yl)sebacate; bis(1,2,2,6,6-pentamethylpiperidin-4-yl)sebacate; bis(1,2,2,6,6-pentamethylpiperidin-4-yl) n-butyl 3,5-di-tert-butyl 4-hydroxybenzyl malonate; polycondensate of 4-hydroxy-2,2,6,6-tetramethyl-1-piperidineethanol and dimethyl succinate; 1,5,8,12-tetrakis[4,6-bis(N-butyl-N-(1,2,2,6,6-pentamethyl-4-piperidyl)amino)-1,3,5-triazin-2-yl]-1,5,8,12-tetraazadodecane; polycondensate of 1,2,3,4-butanetetracarboxylic acid, 1,2,2,6,6-pentamethyl-4-piperidinol, and β,β,β',β'-tetramethyl-2,4,8,10-tetraoxaspiro[5,5]undencane-3,9-diethanol; and a mixture of polycondensate of succinic acid and (4-hydroxy-2,2,6,6-tetramethylpiperidin-1-yl)ethanol with N,N',N'',N'''-tetrakis-(4,6-bis-(butyl-(N-methyl-2,2,6,6-tetramethylpiperidin-4-yl)amino)-triazin-2-yl)-4,7-diazadecane-1,10-diamine.

5. The optical styrene-based resin composition of Claim 1 or 2, containing 0.001 to 0.5 parts by mass of a phosphorus-based antioxidant (C-1) with respect to 100 parts by mass of the styrene-based resin (A).

6. The optical styrene-based resin composition of Claim 5, wherein the phosphorus-based antioxidant (C-1) is at least one selected from a group consisting of: tris(2,4-di-tert-butylphenyl) phosphite; 2,2'-methylenebis(4,6-di-tert-butyl-1-phenyloxy) (2-ethylhexyloxy) phosphorus; bis-(2,4-di-tert-butylphenyl)pentaerythritol diphosphate; 3,9-bis(2,6-di-tert-butyl-4-methylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5,5] undecane; tetrakis (2,4-di-tert-butylphenyl)[1,1 biphenyl]-4,4 diylbisphosphonite; and bis(2,4-di-tert-butyl-6-methylphenyl)ethyl phosphite.

7. The optical styrene-based resin composition of Claim 1 or 2, wherein a melt mass flow rate of the optical styrene-based resin composition under conditions of a temperature of 200°C and a load of 49 N is 0.5 to 5.0 g/10 min.

8. The optical styrene-based resin composition of Claim 1 or 2, wherein a Vicat softening temperature measured in accordance with JIS K 7206 under conditions of a heating rate of 50°C/hr and a testing load of 50 N is 95 to 104°C.

9. A light guide plate obtained by molding the optical styrene-

based resin composition of Claim 1 or 2.

10. A light guide plate obtained by molding an optical styrene-based resin composition, wherein:

the optical styrene-based resin composition contains a styrene-based resin (A) and a hindered amine light stabilizer (B);

the styrene-based resin (A) is a copolymer containing a styrene-based monomer unit and a (meth)acrylic acid ester-based monomer unit;

the copolymer contains 85 to 20 mass% of the styrene-based monomer unit and 15 to 80 mass% of the (meth)acrylic acid ester-based monomer unit in 100 mass% of the copolymer;

the optical styrene-based resin composition contains 0.001 to 1.0 parts by mass of the hindered amine light stabilizer (B) with respect to 100 parts by mass of the styrene-based resin (A); and

a melt mass flow rate of the optical styrene-based resin composition under conditions of a temperature of 200°C and a load of 49 N is 0.5 to 5.0 g/10 min (provided, however, that the light guide plate, wherein the optical styrene-based resin composition contains 10 to 60 parts by mass of a graft copolymer obtained by graft copolymerizing a monomer mixture containing at least a styrene-based monomer and a (meth)acrylic acid ester-based monomer in presence of a rubbery polymer, and 40 to 90 parts by mass of the styrene resin (A), is excluded).

11. A light guide plate obtained by molding an optical styrene-based resin composition, wherein:

the optical styrene-based resin composition contains a styrene-based resin (A) and a hindered amine light stabilizer (B);

the styrene-based resin (A) is a copolymer containing a styrene-based monomer unit and a (meth)acrylic acid ester-based monomer unit;

the copolymer contains 85 to 45 mass% of the styrene-based monomer unit and 15 to 55 mass% of the (meth)acrylic acid ester-based monomer unit in 100 mass% of the copolymer;

the optical styrene-based resin composition contains 0.001 to 1.0 parts by mass of the hindered amine light stabilizer (B) with respect to 100 parts by mass of the styrene-based resin (A); and

a melt mass flow rate of the optical styrene-based resin composition under conditions of a temperature of 200°C and a load of 49 N is 0.5 to 5.0 g/10 min.

12. An edge-light type planar light source unit, having the light

guide plate of Claim 9 and a light source which supplies LED light to an end surface of the light guide plate.

13. An edge-light type planar light source unit, having the light guide plate of Claim 10 or 11 and a light source which supplies LED light to an end surface of the light guide plate.

14. A light diffusion plate obtained by molding the optical styrene-based resin composition of Claim 1 or 2.

15. A light diffusion plate obtained by molding an optical styrene-based resin composition, wherein:

the optical styrene-based resin composition contains a styrene-based resin (A) and a hindered amine light stabilizer (B);

the styrene-based resin (A) is a copolymer containing a styrene-based monomer unit and a (meth)acrylic acid ester-based monomer unit;

the copolymer contains 85 to 20 mass% of the styrene-based monomer unit and 15 to 80 mass% of the (meth)acrylic acid ester-based monomer unit in 100 mass% of the copolymer;

the optical styrene-based resin composition contains 0.001 to 1.0 parts by mass of the hindered amine light stabilizer (B) with respect to 100 parts by mass of the styrene-based resin (A); and

a melt mass flow rate of the optical styrene-based resin composition under conditions of a temperature of 200°C and a load of 49 N is 0.5 to 5.0 g/10 min (provided, however, that the light diffusion plate, wherein the optical styrene-based resin composition contains 10 to 60 parts by mass of a graft copolymer obtained by graft copolymerizing a monomer mixture containing at least a styrene-based monomer and a (meth)acrylic acid ester-based monomer in presence of a rubbery polymer, and 40 to 90 parts by mass of the styrene resin (A), is excluded).

16. A light diffusion plate obtained by molding an optical styrene-based resin composition, wherein:

the optical styrene-based resin composition contains a styrene-based resin (A) and a hindered amine light stabilizer (B);

the styrene-based resin (A) is a copolymer containing a styrene-based monomer unit and a (meth)acrylic acid ester-based monomer unit;

the copolymer contains 85 to 45 mass% of the styrene-based monomer unit and 15 to 55 mass% of the (meth)acrylic acid ester-based monomer unit in 100 mass% of the copolymer;

the optical styrene-based resin composition contains 0.001 to

1.0 parts by mass of the hindered amine light stabilizer (B) with respect to 100 parts by mass of the styrene-based resin (A); and

a melt mass flow rate of the optical styrene-based resin composition under conditions of a temperature of 200°C and a load of 49 N is 0.5 to 5.0 g/10 min.

17. A direct-light type planar light source unit, having the light diffusion plate of Claim 11 and a light source which supplies LED light to the light diffusion plate.

18. A direct-light type planar light source unit, having the light diffusion plate of Claim 15 or 16 and a light source which supplies LED light to the light diffusion plate.