CLAIMS

1. A light diffusion plate, comprising a styrene-based resin composition, wherein:

the styrene-based resin composition comprises a styrene-based resin (A), an antioxidant (B), and a light diffuser (C);

the antioxidant (B) includes at least one selected from phosphorus antioxidant (B-1), phenol antioxidant (B-2), and phosphorus/phenol antioxidant (B-3);

the phosphorus antioxidant (B-1) and the phosphorus/phenol antioxidant (B-3) in total are contained by 0.01 to 0.5 parts by mass with respect to 100 parts by mass of the styrene-based resin;

the phenol antioxidant (B-2) and the phosphorus/phenol antioxidant (B-3) in total are contained by 0.01 to 0.5 parts by mass with respect to 100 parts by mass of the styrene-based resin;

the light diffuser (C) is contained by 0.1 to 10 parts by mass with respect to 100 parts by mass of the styrene-based resin;

t-butyl catechol is contained by 0.1 to 10 μg/g in the styrene-based resin composition;

the styrene-based resin (A) is a homopolymer of styrene-based monomer; and

the styrene-based resin (A) has a weight average molecular weight (Mw) of 290,000 or less.

2. The light diffusion plate of Claim 1, wherein the phosphorus antioxidant (B-1) is at least one selected from:

2,2’-methylenebis(4,6-di-tert-butyl-1-phenyloxy) (2 -ethylhexyloxy)phosphorus,

tris(2,4-di-tert-butylphenyl)phosphite,

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.

3. The light diffusion plate of Claim 1 or 2, wherein the phenol antioxidant (B-2) is at least one selected from:

octadecyl-3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate,

ethylenebis(oxyethylene)bis[3-(5-tert-butyl-4-hydroxy-m-

tolyl)propionate],

pentaerythritol tetrakis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate], and

3,9-bis[2-[3-(3-tert-butyl-4-hydroxy-5-methylphenyl)propionyloxy]-1,1-dimethylethyl]-2,4,8,10-tetraoxaspiro[5,5]undecane.

4. The light diffusion plate of any one of Claims 1 to 3, wherein the phosphorus/phenol antioxidant (B-3) is 6-[3-(3-tert-butyl-4-hydroxy-5-methylphenyl)propoxy]-2,4,8,10-tetra-tert-butyldibenzo[d,f][1,3,2]dioxaphosphepine.

5. The light diffusion plate of any one of Claims 1 to 4, wherein the light diffuser (C) is at least one selected from cross-linked acryl-based polymer particles, cross-linked styrene-based polymer particles, and cross-linked siloxane-based polymer particles.

6. The light diffusion plate of any one of Claims 1 to 5, wherein the styrene-based resin (A) has a weight average molecular weight (Mw) of 200,000 to 290,000, and a ratio of the weight average molecular weight (Mw) and number average molecular weight (Mn) (Mw/Mn) is 1.0 to 3.0.

7. The light diffusion plate of any one of Claims 1 to 6 used for LED light source.

8. A direct surface light source unit comprising the light diffusion plate of any one of Claims 1 to 7.