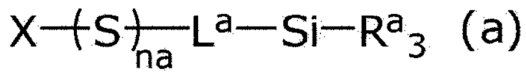
CLAIMS

1. A method for producing a laminate comprising a metal layer and a polysiloxane layer, the method comprising:

applying an adhesion promoting composition to a metal layer or a polysiloxane layer to form a sulfide compound layer, and

forming a metal layer or a polysiloxane layer on the sulfide compound layer, the composition comprising:

a sulfide compound represented by the formula (a):



(a)

wherein

na is an integer of 1 to 5,

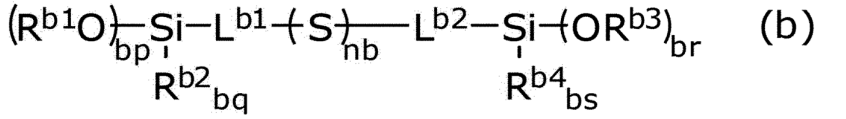
X is a hydrogen atom, alkyl having 1 to 4 carbon atoms which may be substituted with mercapto, or $-L^a-Si-R^a{}_3$,

L^a is each independently alkylene having 1 to 4 carbon atoms,

R^a is each independently selected from the group consisting of hydroxy, alkyl having 1 to 4 carbon atoms and alkoxy having 1 to 4 carbon atoms, and the alkyl and the alkoxy may be substituted with mercapto, provided that at least one of R^a is alkoxy; and

a solvent.

2. The method according to claim 1, wherein the sulfide compound is represented by the formula (b) or (c):



(b)

wherein

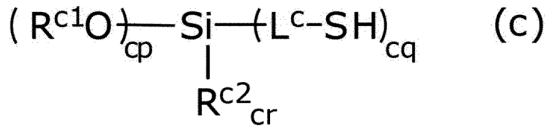
nb is an integer of 1 to 5,

L^{b1} and L^{b2} are each independently alkylene having 1 to 4 carbon atoms,

R^{b1} and R^{b3} are each independently a hydrogen atom or alkyl having 1 to 4 carbon atoms,

R^{b2} and R^{b4} are each independently alkyl having 1 to 4 carbon atoms, and

bp and br are each independently an integer of 1 to 3, bq and bs are each independently an integer of 0 to 2, provided that bp+bq=3 and br+bs=3 are satisfied;



(c)

wherein

L^c is independently alkylene having 1 to 4 carbon atoms,

R^{c1} is a hydrogen atom or alkyl having 1 to 4 carbon atoms,

R^{c2} is alkyl having 1 to 4 carbon atoms, and

cp and cq are each independently an integer of 1 to 3, and cr is an integer of 0 to 2, provided that cp+cq+cr=4 is satisfied.

3. The method according to claim 1 or 2, wherein the molecular weight of the sulfide compound is 150 to 800.

4. The method according to any one of claims 1 to 3, wherein the solvent comprises at least one selected from the group consisting of propylene glycol monomethyl ether acetate, propylene glycol monomethyl ether, γ-butyrolactone, propylene glycol diacetate, diethylene glycol monohexyl ether and methyl 3-methoxypropionate.

5. The method according to any one of claims 1 to 4, wherein the composition further comprises a surfactant.

6. The method according to claim 1, comprising:

applying the adhesion promoting composition according to any one of claims 1 to 5 to a metal layer to form a sulfide compound layer; and

applying a composition comprising a polysiloxane to the

sulfide compound layer to form a polysiloxane layer.

7. A laminate produced by the method according to claim 5 or 6.

8. An electronic device comprising the laminate according to claim 7.