

(b) an alkenyl-substituted organopolysiloxane having an average of at least two silicon-bonded alkenyl groups per molecule.

~~3. A product from incipient materials:~~

(A) 100 parts by weight of an organopolysiloxane having an average of at least two silicon-bonded alkoxy groups and an average of at least two silicon-bonded alkenyl groups per molecule;

(B) an organohydrogenpolysiloxane having an average of at least two silicon-bonded hydrogen atoms per molecule, wherein the molar ratio of silicon-bonded hydrogen atoms in component (B) to silicon-bonded alkenyl groups in component (A) is from 0.3:1 to 20:1;

(C) 0.01 to 20 parts by weight of a metal condensation reaction catalyst wherein the metal of said metal condensation reaction catalyst is selected from titanium, zirconium and aluminum; and

(D) a catalytic amount of a hydrosilylation ~~reaction catalyst.~~

34. An optical memory element, comprising:

(A) a first substrate having a side and a recording layer on said side;

(B) a silicone bonding agent;

(C) a second substrate bonded to said first substrate with said silicone bonding agent;

wherein said silicone bonding agent is ^{obtainable} prepared by curing ^{the} ~~a~~ silicone composition ^{of claims 1 or 2}, which is curable via an addition reaction and a condensation reaction.

~~5. The optical memory element of claim 4, wherein said silicone composition comprises:~~

(A) 100 parts by weight of an organopolysiloxane having an average of at least two silicon-bonded alkoxy groups and an average of at least two silicon-bonded alkenyl groups per molecule;

(B) an organohydrogenpolysiloxane having an average of at least two silicon-bonded hydrogen atoms per molecule, wherein the molar ratio of silicon-bonded hydrogen atoms in component (B) to silicon-bonded alkenyl groups in component (A) is from 0.3:1 to 20:1;

(C) 0.01 to 20 parts by weight of a metal condensation reaction catalyst wherein the metal of said metal condensation reaction catalyst is selected from titanium, zirconium and aluminum; and

(D) a catalytic amount of a hydrosilylation reaction catalyst.

6. The optical memory element of claim 5, wherein component (A) comprises an admixture of:

(a) an alkoxy-substituted organopolysiloxane having an average of at least two silicon-bonded alkoxy groups per molecule; and

~~(b) an alkenyl substituted organopolysiloxane having an average of at least two silicon-bonded alkenyl groups per molecule.~~

47. A method for manufacturing an optical memory element, said method comprising the steps of:

(A) providing a first substrate having a side and a recording layer on said side;

(B) providing a second substrate; and

(C) bonding said first substrate to said second substrate using a silicone composition which is curable to a silicone bonding agent; wherein said silicone composition is ^{obtainable by curing the composition of claim 1 or 2} curable via an addition reaction and a condensation reaction.

~~8. The method of claim 7, wherein said silicone composition comprises:~~

~~(A) 100 parts by weight of an organopolysiloxane having an average of at least two silicon-bonded alkoxy groups and an average of at least two silicon-bonded alkenyl groups per molecule;~~

~~(B) an organohydrogenpolysiloxane having an average of at least two silicon-bonded hydrogen atoms per molecule, wherein the molar ratio of silicon-bonded hydrogen atoms in component (B) to silicon-bonded alkenyl groups in component (A) is from 0.3:1 to 20:1;~~

~~(C) 0.01 to 20 parts by weight of a metal condensation reaction catalyst wherein the metal of~~

~~said metal condensation reaction catalyst is selected~~
from titanium, zirconium and aluminum; and

(D) a catalytic amount of a hydrosilylation
reaction catalyst.

9. The method of claim 8, wherein component (A)
comprises an admixture of:

(a) an alkoxy-substituted organopolysiloxane
having an average of at least two silicon-bonded alkoxy
groups per molecule; and

(b) an alkenyl-substituted organopolysiloxane
having an average of at least two silicon-bonded
~~alkenyl groups per molecule.~~

SILICONE BONDING AGENT FOR OPTICAL MEMORY ELEMENT,
OPTICAL MEMORY ELEMENT, AND METHOD FOR MANUFACTURING
OPTICAL MEMORY ELEMENT

Abstract

A silicone bonding agent for an optical memory element which comprises a silicone composition that is cured by an addition reaction and a condensation reaction. An optical memory element formed by bonding together a substrate which has a recording layer on one side and a substrate which may or may not have a recording layer on one side via the silicone bonding agent. A method for manufacturing an optical memory element by bonding a substrate which has a recording layer on one side and a substrate which may or may not have a recording layer on one side via a silicone bonding comprising a silicone composition that is cured by an addition reaction and a condensation reaction.

Figure 1