

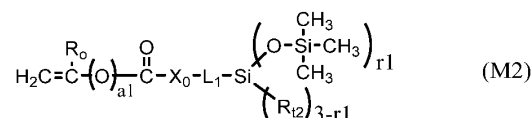
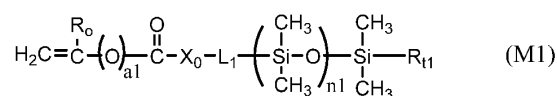
What is claimed is:

1. A method for making contact lenses, comprising the steps of:
 - (1) obtaining a fluid polymerizable composition, wherein the composition comprises an organic solvent and dissolved therein polymerizable materials, wherein the polymerizable materials comprises (a) from about 20% to about 79% (preferably from about 20% to about 75%, more preferably from about 25% to about 70%, even more preferably from about 30% to about 65%) by weight of at least one silicone-containing vinylic monomer and/or at least one silicone-containing vinylic crosslinker; (b) from 20% to about 79% (preferably from about 20% to about 75%, more preferably from about 25% to about 70%, even more preferably from about 30% to about 65%) by weight of at least one hydrophilic vinylic monomer; (c) from 0 to about 2.5% (preferably from 0 to about 2.0%, more preferably from about 0.01% to about 1.5%, even more preferably from about 0.05% to about 1.0%) by weight of at least one non-silicone vinylic crosslinker; (d) from about 0.05% to about 2.0% (preferably from about 0.1% to about 2.0%, more preferably from about 0.2% to about 1.5%, even more preferably from about 0.3% to about 1.2%) by weight of at least one free-radical initiator; (e) from 0 to about 25% (preferably from 0 to about 20%, more preferably from about 2.5% to about 17.5%, even more preferably from about 5% to about 15%) by weight of a blending vinylic monomer; and (f) from 0 to about 3.0% (preferably from about 0.1% to about 2.5%, more preferably from about 0.2% to about 2.0%) by weight of at least one UV-absorbing vinylic monomer and/or at least one UV/HEVL-absorbing vinylic monomer, relative to the total amount of all polymerizable materials in the fluid polymerizable composition, provided that the sum of the amounts of polymerizable materials (a) to (f) and other not-listed polymerizable materials is 100%, wherein the organic solvent has a boiling point of at least 95°C or higher and is present in the polymerizable composition in an amount of from about 4% to about 15% (preferably from about 5.0% to about 12.5%, more preferably from about 5.5% to about 11%, even more preferably from about 5.5% to about 9.5%) by weight relative to the total amount of the fluid polymerizable composition and is capable of functioning as a processing-aid tool for controlling lens diameter of a hydrated soft contact lens made from the polymerizable composition;
 - (2) introducing the fluid polymerizable composition into a cavity formed by a mold, wherein the mold has a first mold half with a first molding surface defining the anterior surface of a contact lens and a second mold half with a second molding surface defining the posterior surface of the contact lens, wherein said first and

- second mold halves are configured to receive each other such that a cavity is formed between said first and second molding surfaces;
- (3) curing thermally or actinically the fluid polymerizable composition in the mold to form a dry contact lens;
- (4) extracting the dry contact lens with a liquid extraction medium to remove the organic solvent, unpolymerized polymerizable components and oligomers from the dry lens to obtain an extracted contact lens; and
- (5) hydrating the extracted contact lens with water or an aqueous solution to obtain the hydrated soft contact lens,

wherein the amount of the organic solvent in the polymerizable composition is adjusted to achieve a targeted lens diameter of the hydrated soft contact lens without affecting adversely the equilibrium water content of the hydrated soft contact lens.

2. The method of claim 1, wherein the step of curing is carried out thermally.
3. The method of claim 1 or 2, wherein the organic solvent has a boiling point of at least 100°C or higher (preferably at least 105°C or higher, more preferably at least 110°C or higher).
4. The method of any one of claims 1 to 3, wherein the organic solvent is a C₃-C₈ alkyl alcohol (preferably a C₄-C₈ alkyl alcohol, more preferably a C₄-C₆ alkyl alcohol).
5. The method of any one of claims 1 to 4, wherein the polymerizable materials comprise at least one silicone containing vinylic monomer which is a vinylic monomer having a bis(trialkylsilyloxy)alkylsilyl group or a tris(trialkylsilyloxy)silyl group, a polysiloxane vinylic monomer, a polycarbosiloxane vinylic monomer, 3-methacryloxy propylpentamethyldisiloxane, t-butyl dimethyl-siloxyethyl vinyl carbonate, trimethylsilylethyl vinyl carbonate, and trimethylsilylmethyl vinyl carbonate, or combinations thereof.
6. The method of any one of claims 1 to 5, wherein the polymerizable materials comprise a vinylic monomer of formula (M1) and/or a vinylic monomer of formula (M2)

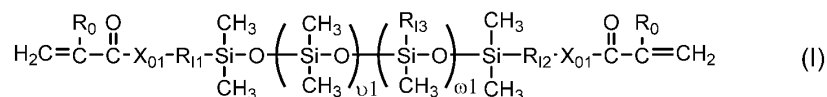


in which: a₁ is zero or 1; R₀ is H or methyl; X₀ is O or NR₁; L₁ is a C₂-C₈ alkylene

divalent radical or a divalent radical of $-\text{L}_1'-\text{X}_1-\text{L}_1''-$, $-(\text{C}_2\text{H}_4\text{O})_{q1}-\text{L}_1''-$, $-(\text{C}_2\text{H}_4\text{O})_{q1}-\text{CONH}-\text{L}_1''-$, $-\text{L}_1'-\text{NHCOO}-(\text{C}_2\text{H}_4\text{O})_{q1}-\text{L}_1''-$,

$-\text{CH}_2-\text{CH}(\text{OH})-\text{CH}_2-\text{X}_1'-\left(\text{C}_2\text{H}_4\text{O}\right)_{q2}-\text{L}_1''-$, $-\text{L}_1'-\text{X}_1'-\text{CH}_2-\text{CH}(\text{OH})-\text{CH}_2-\text{O}-\text{L}_1''-$, or
 $-\left(\text{C}_2\text{H}_4\text{O}\right)_{q1}-\text{CH}_2-\text{CH}(\text{OH})-\text{CH}_2-\text{O}-\text{L}_1''-$; L_1' is a C_2-C_8 alkylene divalent radical which has zero or one hydroxyl group; L_1'' is C_3-C_8 alkylene divalent radical which has zero or one hydroxyl group; X_1 is O, NR_1 , NHCOO , OCONH , CONR_1 , or NR_1CO ; R_1 is H or a C_1-C_4 alkyl having 0 to 2 hydroxyl group; R_{11} and R_{12} independent of each other are a C_1-C_4 alkyl; X_1' is O or NR_1 ; q_1 is an integer of 1 to 20; q_2 is an integer of 0 to 20; n_1 is an integer of 3 to 25; and r_1 is an integer of 2 or 3.

7. The method of any one of claims 1 to 6, wherein the polymerizable materials comprise at least one silicone-containing vinylic crosslinker which is a vinylic crosslinker of formula (I)



in which:

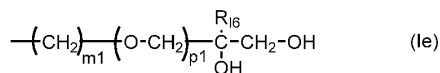
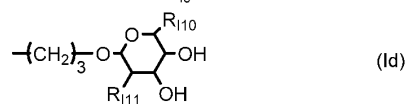
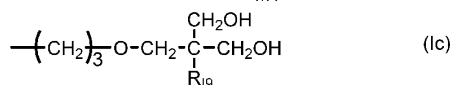
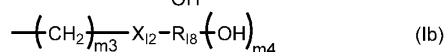
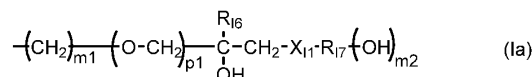
$\omega 1$ is an integer of from 30 to 500 and $\omega 1$ is an integer of from 1 to 75, provided that $\omega 1/\omega 1$ is from about 0.035 to about 0.15;

X_{01} is O or NR_N in which R_N is hydrogen or C_1-C_{10} -alkyl;

R_0 is hydrogen or methyl;

R_{11} and R_{12} independently of each other are a substituted or unsubstituted C_1-C_{10} alkylene divalent radical or a divalent radical of $-\text{R}_{14}-\text{O}-\text{R}_{15}-$ in which R_{14} and R_{15} independently of each other are a substituted or unsubstituted C_1-C_{10} alkylene divalent radical;

R_{13} is a monovalent radical of any one of formula (Ia) to (Ie)



p_1 is zero or 1; m_1 is an integer of 2 to 4; m_2 is an integer of 1 to 5; m_3 is an integer of 3 to 6; m_4 is an integer of 2 to 5;

R_{16} is hydrogen or methyl;

R₁₇ is a C₂-C₆ hydrocarbon radical having (m2+1) valencies;

R₁₈ is a C₂-C₆ hydrocarbon radical having (m4+1) valencies;

R₁₉ is ethyl or hydroxymethyl;

R₁₁₀ is methyl or hydromethyl;

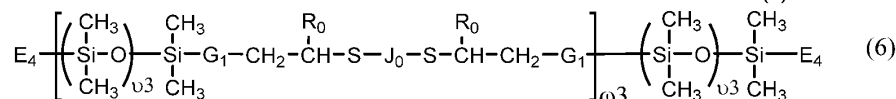
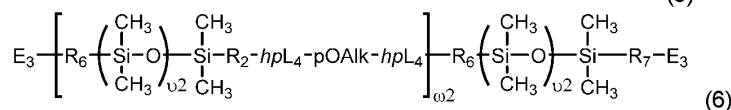
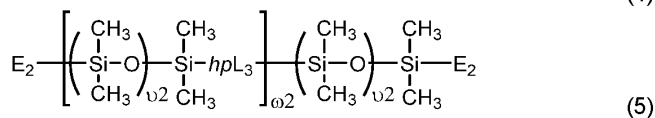
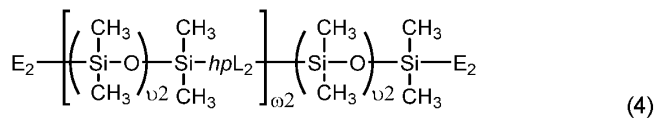
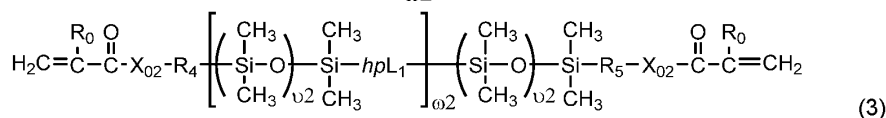
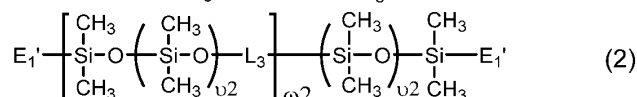
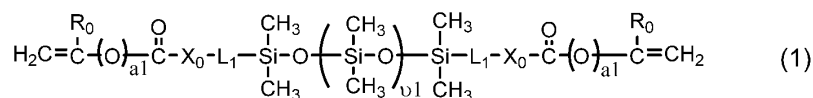
R₁₁₁ is hydroxyl or methoxy;

X₁₁ is a sulfur linkage of -S- or a tertiary amino linkage of -NR₁₁₂- in which R₁₁₂ is

C₁-C₁ alkyl, hydroxyethyl, hydroxypropyl, or 2,3-dihydroxypropyl; and

X₁₂ is an amide linkage of $-\text{NR}_{113}-\overset{\text{O}}{\underset{\text{O}}{\text{C}}}-$ or $-\overset{\text{O}}{\underset{\text{O}}{\text{C}}}-\text{NR}_{113}-$ in which R₁₁₃ is hydrogen or C₁-C₁₀ alkyl.

8. The method of any one of claims 1 to 6, wherein the polymerizable materials comprise at least one silicone-containing vinylic crosslinker which is a vinylic crosslinker of any one of formula (1) to (7)



in which:

v1 is an integer of from 30 to 500;

v2 is an integer of from 5 to 50;

v3 is an integer of from 5 to 100;

ω2 and ω3 independent of each other are an integer of from 1 to 15;

a_1 and g_1 independent of each other is zero or 1;
 h_1 is an integer of 1 to 20 and h_2 is an integer of 0 to 20;
 m_1 and m_3 independent of each other is 0 or 1, m_2 is an integer of 1 to 6, m_4 is an integer of 1 to 5, m_5 is 2 or 3;
 q_1 is an integer of 1 to 20, q_2 is an integer of 0 to 20, q_3 is an integer of 0 to 2, q_4 is an integer of 2 to 50, q_5 and q_6 independent of each other are a number of 0 to 35, provided that $(q_4+q_5+q_6)$ is an integer of 2 to 50;
 $x+y$ is an integer of from 10 to 30;
 e_1 is an integer of 5 to 100, p_1 and b_1 independent of each other are an integer of 0 to 50, provided that $(e_1+p_1+b_1) \geq 10$ and $\frac{e_1}{(p_1+b_1)} \geq 2$ when $(p_1+b_1) \geq 1$;
 R_0 is H or methyl;
 R_1 , R_{1n} , R_{2n} , R_{3n} , and R_{4n} independent of one another are H or a C_1 - C_4 alkyl having 0 to 2 hydroxyl group;
 R_{n5} is H or a C_1 - C_{10} alkyl;
 R_2 is a C_4 - C_{14} hydrocarbon divalent radical;
 R_3 is a C_2 - C_6 alkylene divalent radical;
 R_4 and R_5 independent of each other are a C_1 - C_6 alkylene divalent radical or a C_1 - C_6 alkylene-oxy- C_1 - C_6 alkylene divalent radical;
 R_6 and R_7 independent of each other are a C_1 - C_6 alkylene divalent radical or a C_1 - C_6 alkoxy- C_1 - C_6 alkylene divalent radical;
 R_8 and R_9 independent of each other are a substituted or unsubstituted C_1 - C_{12} alkylene divalent radical;
 X_0 , X_1 , X_{01} , X_{02} , and X_{03} independent of one another are O or NR_1 ;
 X_1 is O, NR_1 , $NHCOO$, $CONH$, $CONR_1$, or NR_1CO ;
 X_{04} is $-COO-$ or $-CONR_{n5}-$;
 X_{05} and X_{07} independent of each other are a direct bond, $-COO-$ or $-CONR_{n5}-$;
 X_{06} is a direct bond, a C_1 - C_6 alkylene divalent radical, a C_1 - C_6 alkyleneoxy divalent radical, $-COO-$, or $-CONR_{n5}-$;
 X_{08} is a direct bond or $-COO-$;
 X_{09} is O or NR_{n5} ;
 X_{10} is a direct bond, a C_1 - C_6 alkylene divalent radical, $-COO-$, or $-CONR_{n5}-$;

E_1' is a monovalent radical of $H_2C=\overset{\overset{R_0}{|}}{C}-\overset{\overset{O}{||}}{C}-X_{01}-L_4-$;

E_2 is a monovalent radical of $H_2C=\overset{\overset{R_0}{|}}{C}-\overset{\overset{O}{||}}{C}-Z_7-$;

E_3 is a monovalent radical of $H_2C=\overset{\overset{R_0}{\text{C}}}{\underset{\underset{\text{O}}{\parallel}}{\text{C}}}-X_{03}-$;

E_4 is a monovalent radical of $H_2C=\overset{\overset{R_0}{\text{C}}}{\underset{\underset{\text{O}}{\parallel}}{\text{C}}}-X_{11}-G_2-$ or $H_2C=\overset{\overset{R_0}{\text{C}}}{\underset{\underset{\text{O}}{\parallel}}{\text{C}}}-G_3-$;

L_1 is a C_2 - C_8 alkylene divalent radical or a divalent radical of $-L_1'-X_1-L_1''-$,

$-(C_2H_4O)_{q1}-L_1''-$, $-(C_2H_4O)_{q1}CONH-L_1''-$, $-L_1'-NHCOO-(C_2H_4O)_{q1}-L_1''-$,

$-CH_2-CH(OH)-CH_2-X_1'-(C_2H_4O)_{q2}-L_1''-$, $-L_1'-X_1'-CH_2-CH(OH)-CH_2-O-L_1''-$, or

$-(C_2H_4O)_{q1}CH_2-CH(OH)-CH_2-O-L_1''-$;

L_1' is a C_2 - C_8 alkylene divalent radical which has zero or one hydroxyl group;

L_1'' is C_3 - C_8 alkylene divalent radical which has zero or one hydroxyl group;

L_3 is a divalent radical of

$-L_3'-O-(C_2H_4O)_{q2}CONH-R_2-(NHCO-PE-CONH-R_2)_{g1}NHCO-(OC_2H_4)_{q2}O-L_3'-$ in which

PE is a divalent radical of

$-(CH_2CH_2O)_{q3}-Z_0-CF_2-(OCF_2)_x-(OCF_2CF_2)_y-OCF_2-Z_0-(OCH_2CH_2)_{q3}-$ or

$-Z_0-(CH_2CH_2O)_{q4}-(CH_2-\overset{\overset{CH_3}{\text{C}}}{\text{CH}}-O)_{q5}-(CH_2-\overset{\overset{C_2H_5}{\text{C}}}{\text{CH}}-O)_{q6}-Z_0-$;

L_3' is C_3 - C_8 alkylene divalent radical;

L_4 is a divalent radical of $-C_2H_4-NHCO-O-(C_2H_4O)_{q2}-L_3'-$,

$-(C_2H_4O)_{q1}CONH-R_2-NHCO-O-(C_2H_4O)_{q2}-L_3'-$,

$-R_3-O-CONH-R_2-NHCO-O-(C_2H_4O)_{q2}-L_3'-$, $-CH_2-CH(OH)-CH_2-O-(C_2H_4O)_{q2}-L_3'-$, or

$-(C_2H_4O)_{q2}-L_3'-$;

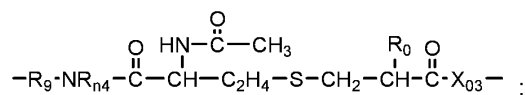
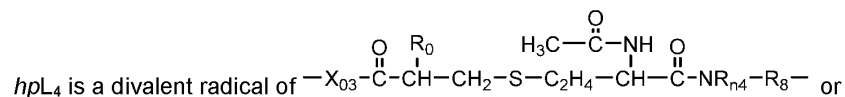
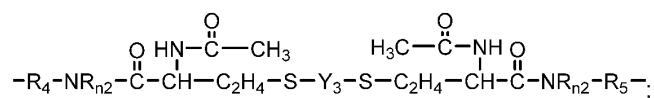
hpL_1 is a divalent radical of

$-R_4-\overset{\overset{R_0}{\text{C}}}{\text{CH}}-CH_2-S-C_2H_4-\overset{\overset{H_3C}{\text{C}}}{\text{CH}}-\overset{\overset{\text{O}}{\parallel}}{\text{C}}-NH-\overset{\overset{\text{O}}{\parallel}}{\text{C}}-NR_{n2}-Y_1-NR_{n2}-\overset{\overset{\text{O}}{\parallel}}{\text{C}}-NH-\overset{\overset{\text{O}}{\parallel}}{\text{C}}-CH-C_2H_4-S-CH_2-\overset{\overset{R_0}{\text{C}}}{\text{CH}}-R_5-$;

hpL_2 is a divalent radical of

$-R_4-NR_{n2}-\overset{\overset{\text{O}}{\parallel}}{\text{C}}-NH-\overset{\overset{\text{O}}{\parallel}}{\text{C}}-CH-C_2H_4-S-Y_2-S-C_2H_4-\overset{\overset{H_3C}{\text{C}}}{\text{CH}}-\overset{\overset{\text{O}}{\parallel}}{\text{C}}-NH-\overset{\overset{\text{O}}{\parallel}}{\text{C}}-NR_{n2}-R_5-$;

hpL_3 is a divalent radical of



pOAlk is a divalent radical of $-(EO)_{e1}(PO)_{p1}(BO)_{b1}-$ in which EO is an oxyethylene

unit $(-CH_2CH_2O-)$, PO is an oxypropylene unit $(-\overset{\overset{O}{\parallel}}{CH}-CH_2-CH_2-O-)$, and BO is an

oxybutylene unit $(-\overset{\overset{O}{\parallel}}{CH}-CH_2-CH_2-CH_2-O-)$;

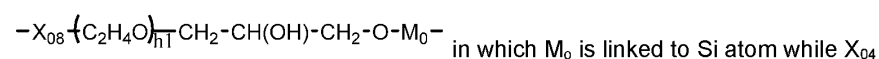
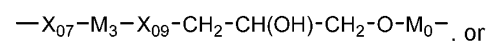
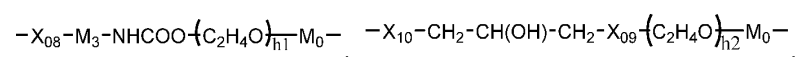
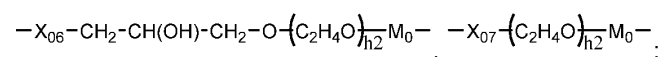
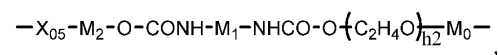
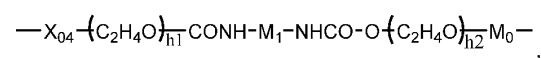
M_0 is C_3-C_8 alkylene divalent radical;

M_1 is a C_4-C_{14} hydrocarbon divalent radical;

M_2 and M_3 independent of each other are a C_1-C_6 alkylene divalent radical;

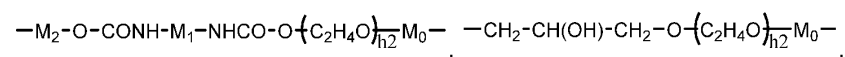
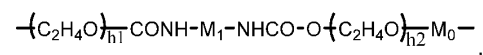
J_0 is a C_1-C_{12} hydrocarbon radical having 0 to 2 hydroxyl or carboxyl groups;

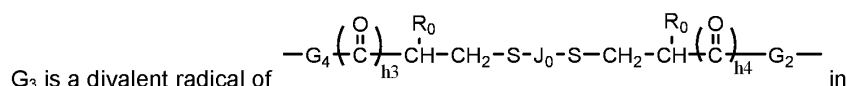
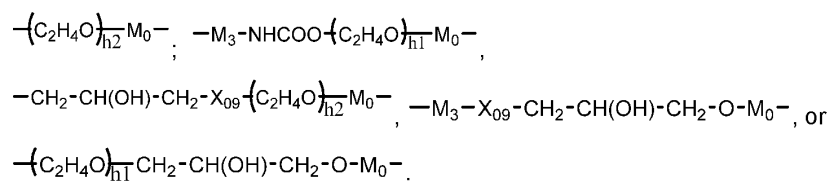
G_1 is a direct bond, a C_1-C_4 alkylene divalent radical, or a bivalent radical of



to X_{10} are linked to the group of $-CH_2-$ in formula (7) and at least one of J_0 and G_1 in formula (7) comprises at least one moieties selected from the group consisting of hydroxyl groups, urethane linkage of $-OCONH-$, amino groups of $-NHR^0$, amino linkages of $-NH-$, amide linkages of $-CONH-$, carboxyl groups, and combinations thereof;

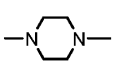
G_2 is a C_1-C_4 alkylene divalent radical or a bivalent radical of





which h_3 and h_4 independent of each other are 1 or 0;

G_4 is a divalent radical of any one of (a) $-\text{NR}_3'-$ in which R_3' is hydrogen or C_1-C_3

alkyl, (b) , (c) $-\text{NR}_0-\text{G}_5-\text{NR}_0-$ in which G_5 is a C_1-C_6 alkylene divalent radical, 2-hydroxypropylene divalent radical, 2-(phosphonyloxy)propylene divalent radical, 1,2-dihydroxyethylene divalent radical, 2,3-dihydroxybutylene divalent radical, and (d) $-\text{O}-\text{G}_6-\text{O}-$ in which G_6 is a C_1-C_6 alkylene divalent radical, a

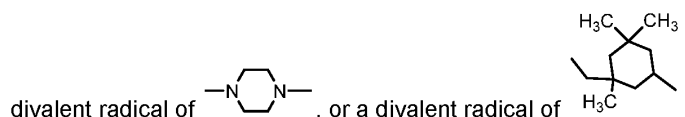
divalent radical of $-(\text{CH}_2-\text{CH}(\text{OH})-\text{CH}_2-\text{O})_{h4'}-\text{CH}_2-\text{CH}(\text{OH})-\text{CH}_2-$ in which h_4' is 1 or 2, a

divalent radical of $-\text{CH}_2-\text{CH}(\text{OH})-\text{CH}_2-\text{O}-\text{CH}_2-\text{CH}_2-\text{O}-\text{CH}_2-\text{CH}(\text{OH})-\text{CH}_2-$, a divalent radical

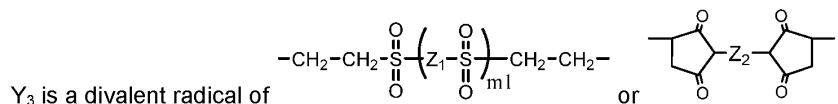
of $-(\text{CH}_2-\text{CH}_2-\text{O})_{h5}-\text{CH}_2-\text{CH}_2-$ in which h_5 is an integer of 1 to 5, a divalent

radical of $-(\text{CH}_2)_{h6}-\text{O}-\text{P}\left(\begin{smallmatrix} \text{O} \\ \parallel \end{smallmatrix}\right)-\text{O}-(\text{CH}_2)_{m5}-$ in which h_6 is 2 or 3, or a substituted C_3-C_8 alkylene divalent radical having a hydroxyl group or phosphonyloxy group;

Y_1 is a C_1-C_6 alkylene divalent radical, 2-hydroxypropylene divalent radical, 2-(phosphonyloxy)propylene divalent radical, 1,2-dihydroxyethylene divalent radical, a



Y_2 is a divalent radical of $-\text{CH}_2-\text{CH}\left(\text{C}\left(\begin{smallmatrix} \text{O} \\ \parallel \end{smallmatrix}\right)\right)^{\text{R}_0}-\text{Z}_3-\text{C}\left(\begin{smallmatrix} \text{O} \\ \parallel \end{smallmatrix}\right)^{\text{R}_0}-\text{CH}-\text{CH}_2-$;



Z_0 is a direct bond or a C_1-C_{12} alkylene divalent radical;

Z_1 is a C_1-C_6 alkylene divalent radical, a hydroxyl- or methoxy-substituted C_1-C_6 alkylene divalent radical, or a substituted or unsubstituted phenylene divalent radical,

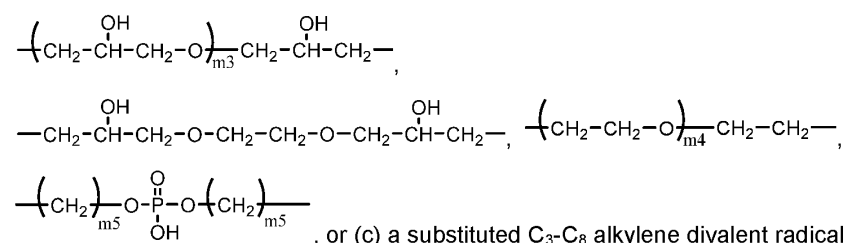
Z₂ is a C₁-C₆ alkylene divalent radical, a hydroxyl- or methoxy-substituted C₁-C₆ alkylene divalent radical, a dihydroxyl- or dimethoxy-substituted C₂-C₆ alkylene divalent radical, a divalent radical of $-\text{C}_2\text{H}_4-(\text{O}-\text{C}_2\text{H}_4)_{m2}-$, a divalent radical of $-\text{Z}_4-\text{S}-\text{S}-\text{Z}_4-$, a hydroxyl- or methoxy-substituted C₁-C₆ alkylene divalent radical, or a substituted or unsubstituted phenylene divalent radical,

Z₃ is a divalent radical of any one of (a) $-\text{NR}_{n3}-$, (b) $-\text{N} \begin{array}{c} \diagup \quad \diagdown \\ \text{---} \quad \text{---} \end{array} \text{N}-$, (c) $-\text{NR}_0-\text{Z}_5-\text{NR}_0-$, and (d) $-\text{O}-\text{Z}_6-\text{O}-$,

Z₄ is a C₁-C₆ alkylene divalent radical,

Z₅ is a C₁-C₆ alkylene divalent radical, 2-hydroxypropylene divalent radical, 2-(phosphonyloxy)propylene divalent radical, 1,2-dihydroxyethylene divalent radical, 2,3-dihydroxybutylene divalent radical,

Z₆ is (a) a C₁-C₆ alkylene divalent radical, (b) a divalent radical of



Z₇ is a divalent radical of $-\text{Z}_3-\overset{\text{O}}{\underset{\text{R}_0}{\text{C}}}-\overset{\text{O}}{\underset{|}{\text{CH}}}-\text{CH}_2-\text{S}-\text{C}_2\text{H}_4-\overset{\text{O}}{\underset{|}{\text{CH}}}-\overset{\text{O}}{\underset{\text{H}_3\text{C}-\overset{\text{O}}{\text{C}}}-\text{NH}}{\text{C}}-\text{NR}_{n2}-\text{R}_4-$; and

Z₈ is a divalent radical of $-\text{Z}_9-\overset{\text{O}}{\underset{\text{R}_0}{\text{C}}}-\overset{\text{O}}{\underset{|}{\text{CH}}}-\text{CH}_2-\text{S}-\text{C}_2\text{H}_4-\overset{\text{O}}{\underset{|}{\text{CH}}}-\overset{\text{O}}{\underset{\text{H}_3\text{C}-\overset{\text{O}}{\text{C}}}-\text{NH}}{\text{C}}-\text{NR}_{n2}-\text{R}_4-$.

9. The method of any one of claims 1 to 8, wherein said at least one hydrophilic vinyl monomer comprises: (1) an alkyl (meth)acrylamide selected from the group consisting of (meth)acrylamide, N,N-dimethyl (meth)acrylamide, N-ethyl (meth)acrylamide, N,N-diethyl (meth)acrylamide, N-propyl (meth)acrylamide, N-isopropyl (meth)acrylamide, N-3-methoxypropyl (meth)acrylamide, and combinations thereof; (2) a hydroxyl-containing acrylic monomer selected from the group consisting of N-2-hydroxyethyl (meth)acrylamide, N,N-bis(hydroxyethyl) (meth)acrylamide, N-3-hydroxypropyl (meth)acrylamide, N-2-hydroxypropyl (meth)acrylamide, N-2,3-dihydroxypropyl (meth)acrylamide, N-tris(hydroxymethyl)methyl (meth)acrylamide, 2-hydroxyethyl (meth)acrylate, 3-hydroxypropyl (meth)acrylate, 2-hydroxypropyl (meth)acrylate, glycerol methacrylate (GMA), di(ethylene glycol) (meth)acrylate,

tri(ethylene glycol) (meth)acrylate, tetra(ethylene glycol) (meth)acrylate, poly(ethylene glycol) (meth)acrylate having a number average molecular weight of up to 1500, poly(ethylene glycol)ethyl (meth)acrylamide having a number average molecular weight of up to 1500, and combinations thereof; (3) a carboxyl-containing acrylic monomer selected from the group consisting of 2-(meth)acrylamidoglycolic acid, (meth)acrylic acid, ethylacrylic acid, and combinations thereof; (4) an amino-containing acrylic monomer selected from the group consisting of N-2-aminoethyl (meth)acrylamide, N-2-methylaminoethyl (meth)acrylamide, N-2-ethylaminoethyl (meth)acrylamide, N-2-dimethylaminoethyl (meth)acrylamide, N-3-aminopropyl (meth)acrylamide, N-3-methylaminopropyl (meth)acrylamide, N-3-dimethylaminopropyl (meth)acrylamide, 2-aminoethyl (meth)acrylate, 2-methylaminoethyl (meth)acrylate, 2-ethylaminoethyl (meth)acrylate, 3-aminopropyl (meth)acrylate, 3-methylaminopropyl (meth)acrylate, 3-ethylaminopropyl (meth)acrylate, 3-amino-2-hydroxypropyl (meth)acrylate, trimethylammonium 2-hydroxy propyl (meth)acrylate hydrochloride, dimethylaminoethyl (meth)acrylate, and combinations thereof; (5) an N-vinyl amide monomer selected from the group consisting of N-vinylpyrrolidone (*aka*, N-vinyl-2-pyrrolidone), N-vinyl-3-methyl-2-pyrrolidone, N-vinyl-4-methyl-2-pyrrolidone, N-vinyl-5-methyl-2-pyrrolidone, N-vinyl-6-methyl-2-pyrrolidone, N-vinyl-3-ethyl-2-pyrrolidone, N-vinyl-4,5-dimethyl-2-pyrrolidone, N-vinyl-5,5-dimethyl-2-pyrrolidone, N-vinyl-3,3,5-trimethyl-2-pyrrolidone, N-vinyl piperidone (*aka*, N-vinyl-2-piperidone), N-vinyl-3-methyl-2-piperidone, N-vinyl-4-methyl-2-piperidone, N-vinyl-5-methyl-2-piperidone, N-vinyl-6-methyl-2-piperidone, N-vinyl-6-ethyl-2-piperidone, N-vinyl-3,5-dimethyl-2-piperidone, N-vinyl-4,4-dimethyl-2-piperidone, N-vinyl caprolactam (*aka*, N-vinyl-2-caprolactam), N-vinyl-3-methyl-2-caprolactam, N-vinyl-4-methyl-2-caprolactam, N-vinyl-7-methyl-2-caprolactam, N-vinyl-7-ethyl-2-caprolactam, N-vinyl-3,5-dimethyl-2-caprolactam, N-vinyl-4,6-dimethyl-2-caprolactam, N-vinyl-3,5,7-trimethyl-2-caprolactam, N-vinyl-N-methyl acetamide, N-vinyl formamide, N-vinyl acetamide, N-vinyl isopropylamide, N-vinyl-N-ethyl acetamide, N-vinyl-N-ethyl formamide, and mixtures thereof; (6) a methylene-containing pyrrolidone monomer selected from the group consisting of 1-methyl-3-methylene-2-pyrrolidone, 1-ethyl-3-methylene-2-pyrrolidone, 1-methyl-5-methylene-2-pyrrolidone, 1-ethyl-5-methylene-2-pyrrolidone, 5-methyl-3-methylene-2-pyrrolidone, 5-ethyl-3-methylene-2-pyrrolidone, 1-n-propyl-3-methylene-2-pyrrolidone, 1-n-propyl-5-methylene-2-pyrrolidone, 1-isopropyl-3-methylene-2-pyrrolidone, 1-isopropyl-5-methylene-2-pyrrolidone, 1-n-butyl-3-methylene-2-pyrrolidone, 1-tert-butyl-3-methylene-2-pyrrolidone, and combinations thereof; (7) acrylic monomers having a C₁-C₄ alkoxyethoxy group selected from the group consisting of ethylene glycol

methyl ether (meth)acrylate, di(ethylene glycol) methyl ether (meth)acrylate, tri(ethylene glycol) methyl ether (meth)acrylate, tetra(ethylene glycol) methyl ether (meth)acrylate, C₁-C₄-alkoxy poly(ethylene glycol) (meth)acrylate having a weight average molecular weight of up to 1500, methoxy-poly(ethylene glycol)ethyl (meth)acrylamide having a number average molecular weight of up to 1500, and combinations thereof; (8) a vinyl ether monomer selected from the group consisting of ethylene glycol monovinyl ether, di(ethylene glycol) monovinyl ether, tri(ethylene glycol) monovinyl ether, tetra(ethylene glycol) monovinyl ether, poly(ethylene glycol) monovinyl ether, ethylene glycol methyl vinyl ether, di(ethylene glycol) methyl vinyl ether, tri(ethylene glycol) methyl vinyl ether, tetra(ethylene glycol) methyl vinyl ether, poly(ethylene glycol) methyl vinyl ether, and combinations thereof; (9) an allyl ether monomer selected from the group consisting of ethylene glycol monoallyl ether, di(ethylene glycol) monoallyl ether, tri(ethylene glycol) monoallyl ether, tetra(ethylene glycol) monoallyl ether, poly(ethylene glycol) monoallyl ether, ethylene glycol methyl allyl ether, di(ethylene glycol) methyl allyl ether, tri(ethylene glycol) methyl allyl ether, tetra(ethylene glycol) methyl allyl ether, poly(ethylene glycol) methyl allyl ether, and combinations thereof; (10) a phosphorylcholine-containing vinylic monomer selected from the group consisting of (meth)acryloyloxyethyl phosphorylcholine, (meth)acryloyloxypropyl phosphorylcholine, 4-((meth)acryloyloxy)butyl-2'-(trimethylammonio)ethylphosphate, 2-[(meth)acryloylamino]ethyl-2'-(trimethylammonio)-ethylphosphate, 3-[(meth)acryloylamino]propyl-2'-(trimethylammonio)ethylphosphate, 4-[(meth)acryloylamino]butyl-2'-(trimethylammonio)ethylphosphate, 5-((meth)acryloyloxy)pentyl-2'-(trimethylammonio)ethyl phosphate, 6-((meth)acryloyloxy)hexyl-2'-(trimethylammonio)-ethylphosphate, 2-((meth)acryloyloxy)ethyl-2'-(triethylammonio)ethylphosphate, 2-((meth)acryloyloxy)ethyl-2'-(tripropylammonio)ethylphosphate, 2-((meth)acryloyloxy)ethyl-2'-(tributylammonio)ethyl phosphate, 2-((meth)acryloyloxy)propyl-2'-(trimethylammonio)-ethylphosphate, 2-((meth)acryloyloxy)butyl-2'-(trimethylammonio)ethylphosphate, 2-((meth)acryloyloxy)pentyl-2'-(trimethylammonio)ethylphosphate, 2-((meth)acryloyloxy)hexyl-2'-(trimethylammonio)ethyl phosphate, 2-(vinyloxy)ethyl-2'-(trimethylammonio)ethylphosphate, 2-(allyloxy)ethyl-2'-(trimethylammonio)ethylphosphate, 2-(vinyloxy)ethyl-2'-(trimethylammonio)ethyl phosphate, 2-(allyloxy)ethyl-2'-(trimethylammonio)-ethylphosphate, 2-(vinylcarbonylamino)ethyl-2'-(trimethylammonio)ethylphosphate, 2-(allyloxy)ethyl-2'-(trimethylammonio)ethyl phosphate, 2-(butenoyloxy)ethyl-2'-(trimethylammonio)ethylphosphate, and combinations thereof;

- (11) allyl alcohol; (12) N-2-hydroxyethyl vinyl carbamate; (13) N-carboxyvinyl- β -alanine (VINYL); (14) N-carboxyvinyl- α -alanine; (15) or combinations thereof.
10. The method of any one of claims 1 to 9, wherein said at least one non-silicone vinylic cross-linking agents comprises ethyleneglycol di-(meth)acrylate, diethyleneglycol di-(meth)acrylate, triethyleneglycol di-(meth)acrylate, tetraethyleneglycol di-(meth)acrylate, glycerol di-(meth)acrylate, 1,3-propanediol di-(meth)acrylate, 1,3-butanediol di-(meth)acrylate, 1,4-butanediol di-(meth)acrylate, glycerol 1,3-diglycerolate di-(meth)acrylate, ethylenebis[oxy(2-hydroxypropane-1,3-diyl)] di-(meth)acrylate, bis[2-(meth)acryloxyethyl] phosphate, trimethylolpropane di-(meth)acrylate, and 3,4-bis[(meth)acryloyl]tetrahydrofuran, diacrylamide, dimethacrylamide, N,N-di(meth)acryloyl-N-methylamine, N,N-di(meth)acryloyl-N-ethylamine, N,N'-methylene bis(meth)acrylamide, N,N'-ethylene bis(meth)acrylamide, N,N'-dihydroxyethylene bis(meth)acrylamide, N,N'-propylene bis(meth)acrylamide, N,N'-2-hydroxypropylene bis(meth)acrylamide, N,N'-2,3-dihydroxybutylene bis(meth)acrylamide, 1,3-bis(meth)acrylamidepropane-2-yl dihydrogen phosphate, piperazine diacrylamide, tetraethyleneglycol divinyl ether, triethyleneglycol divinyl ether, diethyleneglycol divinyl ether, ethyleneglycol divinyl ether, triallyl isocyanurate, triallyl cyanurate, trimethylolpropane trimethacrylate, pentaerythritol tetramethacrylate, bisphenol A dimethacrylate, allylmethacrylate, allylacrylate, N-allyl-methacrylamide, N-allyl-acrylamide, or combinations thereof.
 11. The method of any one of claims 1 to 10, wherein said at least one blending vinylic monomer comprises methyl methacrylate.
 12. The method of any one of claims 1 to 11, wherein the polymerizable materials comprise 2-[2'-hydroxy-5'-(2-methacryloxyethyl)phenyl]-2H-benzotriazole and a UV/HEVL absorbing vinylic monomer selected from the group consisting of 2-{2'-Hydroxy-3'-*tert*-butyl-5'-[3'-methacryloyloxypropoxy]phenyl}-2H-benzotriazole, 2-{2'-Hydroxy-3'-*tert*-butyl-5'-[3'-methacryloyloxypropoxy]phenyl}-5-methoxy-2H-benzotriazole, 2-{2'-Hydroxy-3'-*tert*-butyl-5'-[3'-methacryloyloxypropoxy]phenyl}-5-chloro-2H-benzotriazole, 2-[2'-Hydroxy-3'-*tert*-butyl-5'-(3'-acryloyloxypropoxy)phenyl]-5-trifluoromethyl-2H-benzotriazole, and combinations thereof.
 13. The method of any one of claims 1 to 12, wherein the liquid extraction medium is: (a) water; (b) an aqueous solution; (c) a mixture of water with one or more organic solvents selected from the group consisting of 1,2-propylene glycol, a polyethyleneglycol having a number average molecular weight of about 400 Daltons or less, a C₁-C₃ alkyl alcohol, and combination thereof; or (d) one or more organic solvents selected from the group consisting of 1,2-propylene glycol, a polyethyleneglycol having a number average molecular weight of about 400 Daltons

or less, a C₁-C₃ alkylalcohol, and combination thereof.

14. A hydrated silicone hydrogel contact lens obtained according to the method of any one of claims 1 to 13, preferably wherein the silicone hydrogel contact lens has an oxygen permeability of at least 50 barrers, an elastic modulus of from about 0.2 MPa to about 1.5 MPa, and an equilibrium water content of from about 15% to about 75% by weight.