

50% of macromer from Example A1

20% of TRIS

30% of DMA

The lenses are equilibrated in phosphate-buffered physiological saline solution in autoclave-resistant vials and then autoclaved at 120° C. for 30 minutes. All physical data measurements are carried out on autoclaved lenses.

Water content [%]	O ₂ Dk value [barrer]	Elongation at break [%]
24	78	300

EXAMPLE B18

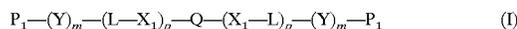
The lenses of example B17 are plasma treated in analogy to the lenses of example B15.

The plasma treated lenses are then equilibrated in phosphate-buffered physiological saline solution in autoclave-resistant vials and then autoclaved at 120° C. for 30 minutes. All physical data measurements are carried out on autoclaved lenses.

Water content [%]	O ₂ Dk value [barrer]	Modulus of elasticity [MPa]
21.5	95	1.1

What is claimed is:

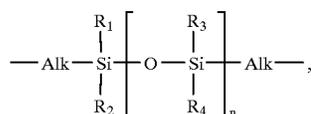
I. A macromer of the formula (I)



where each P₁, independently of the others, is a free-radical-polymerizable group; each Y, independently of the others, is —CONHCOO—, —CONHCONH—, —OCONHCO—, —NHCONHCO—, —NHCO—, —CONH—, —NHCONH—, —COO—, —OCO—, —NHCOO— or —OCONH—; m and p, independently of one another, are 0 or 1; each L, independently of the others, is a divalent radical of an organic compound having up to 20 carbon atoms; each X₁, independently of the others, is —NHCO—, —CONH—, —NHCONH—, —COO—, —OCO—, —NHCOO— or —OCONH—; and Q is a bivalent polymer fragment consisting of the segments

(a) —(E)_k—Z—CF₂—(OCF₂)_x—(OCF₂CF₂)_y—OCF₂—Z—(E)_k—, where x+y is a number in the range from 10 to 30; each Z, independently of the others, is a divalent radical having up to 12 carbon atoms or a bond; each E, independently of the others, is —(OCH₂CH₂)_q—, where q has a value of from 0 to 2, and where the link —Z—E— represents the sequence —Z—(OCH₂CH₂)_q—; and k is 0 or 1;

(b)



where n is an integer from 5 to 100; Alk is alkylene having up to 20 carbon atoms; 80–100% of the radicals R₁, R₂, R₃ and R₄, independently of one another, are alkyl and 0–20%

of the radicals R₁, R₂, R₃ and R₄, independently of one another, are alkenyl, aryl or cyanoalkyl; and

(c) X₂—R—X₂, where R is a divalent organic radical having up to 20 carbon atoms, and each X₂, independently of the others, is —NHCO—, —CONH—, —NHCONH—, —COO—, —OCO—, —NHCOO— or —OCONH—;

with the proviso that each segment (a) or (b) has a segment (c) attached to it; and each segment (c) has a segment (a) or (b) attached to it.

2. A macromer according to claim 1, in which the number of segments (b) in the polymer fragment Q is greater than or equal to the number of segments (a).

3. A macromer according to claim 1, in which the ratio between segments (a) and (b) in polymer fragment Q is 3:4, 2:3, 1:2 or 1:1.

4. A macromer according to claim 1, in which the mean molecular weight of the polymer fragment Q is in the range from about 1000 to about 20000.

5. A macromer according to claim 1, in which the total number of segments (a) and (b) in the polymer fragment Q is in the range from 2 to about 11.

6. A macromer according to claim 1, in which the smallest polymer fragment Q comprises, on stoichiometric average, one perfluoro segment (a), one siloxane segment (b) and one segment (c).

7. A macromer according to claim 1, in which the polymer fragment Q is terminated, on stoichiometric average, at each end by a siloxane segment (b).

8. A macromer according to claim 1, in which X₁ is —NHCONH—, —NHCOO— or —OCONH—.

9. A macromer according to claim 1, in which the segment X₂—R—X₂ is a radical derived from a diisocyanate, where each X₂, independently of the other, is —NHCONH—, —NHCOO— or —OCONH—.

10. A macromer according to claim 1, in which Z is a bond, lower alkylene or —CONH-arylene, where the —CO— moiety is linked to a CF₂ group.

11. A macromer according to claim 1, in which Z is lower alkylene.

12. A macromer according to claim 1, in which the indices x+y are a number in the range from 10 to 25.

13. A macromer according to claim 1, in which the ratio x:y is in the range from 0.5 to 1.5.

14. A macromer according to claim 1, in which the free-radical-polymerizable group P₁ is alkenyl, alkenylaryl or alkenylarylenealkyl having up to 20 carbon atoms.

15. A macromer according to claim 1, in which P₁ is alkenyl or alkenylaryl having up to 12 carbon atoms.

16. A macromer according to claim 1, in which Y is —COO—, —OCO—, —NHCONH—, —NHCOO—, —OCONH—, —NHCO— or —CONH—.

17. A macromer according to claim 1, in which the indices m and p are not simultaneously zero.

18. A macromer according to claim 1, in which L is alkylene, arylene, alylenealkylene, alkylenearylene, alkylenearylenealkylene or arylenealkylenearylene.

19. A macromer according to claim 1, in which L is alkylene or arylene having up to 12 carbon atoms.

20. A macromer according to claim 1, in which the divalent radical R is alkylene, arylene, alkylenearylene, arylenealkylene or arylenealkylenearylene having up to 20 carbon atoms or cycloalkylenealkylenealkylene having 7 to 20 carbon atoms.

21. A macromer according to claim 1, in which R is alkylene, arylene, alkylenearylene, arylenealkylene or arylenealkylenearylene having up to 14 carbon atoms.