

the mold using a fluorocarbon release agent. Lenses made from both formulations were clear.

Example 2

A blend of copolymers was prepared which was identical to the first blend in Example 1 except that a dimethylvinylsilyl endblocked copolymer gum consisting essentially of about 20 mol percent methylvinylsiloxane units, about 5 mol percent phenylmethylsiloxane units and about 75 mol percent of dimethylsiloxane units was employed as copolymer (B).

Lenses were press molded from this composition using the same procedure as in Example 1.

Example 3

A blend of copolymers was prepared which was identical to the first blend in Example 1 except that a dimethylvinylsilyl endblocked copolymer gum consisting essentially of about 25 mol percent methylvinylsiloxane units, about 4 mol percent phenylmethylsiloxane units and about 71 mol percent dimethylsiloxane units was employed as copolymer (B).

Lenses were press molded from this composition using the same procedure as in Example 1.

Example 4

A blend of copolymers was prepared which was identical to the first blend in Example 1 except that a dimethylvinylsilyl endblocked copolymer gum consisting essentially of about 15 mol percent of methylvinylsiloxane units, about 5 mol percent of phenylmethylsiloxane units and about 80 mol percent of dimethylsiloxane units was employed as copolymer (B) and 5 parts of a trimethylsilyl treated silica reinforcing filler was milled in with the polymers before the peroxide was added.

A second blend of copolymers was prepared which was identical to the one above except that it contained 10 parts of the filler.

Lenses were press molded from both of the compositions using the same procedure as in Example 1. The resulting lenses were clear.

Example 5

A blend of copolymers was prepared which was identical to the blend of Example 2 except that 70 parts of copolymer (A) and 30 parts of copolymer (B) were used in the blend and 5 parts of a trimethylsilyl treated silica reinforcing filler was milled in with the copolymers before the peroxide was added.

A second blend of copolymers was prepared which was identical to the first except that it contained 2 parts of the peroxide instead of 5.

Example 6

Three copolymer blends were prepared which were identical to the blend of Example 2 except that 5 parts of a trimethylsilyl treated silica reinforcing filler was milled in with the copolymers before the peroxide was added and the amount of peroxide employed in these formulations was 2, 1 and 0.5 parts, respectively.

Example 7

A blend of copolymers was prepared which was identical to the second blend of Example 5 except that 67.5 parts of copolymer (A) and 32.5 parts of copolymer (B) were employed.

Example 8

A blend of copolymers was prepared which was identical to that of Example 2 except that 30 parts of a trimethylsilyl treated silica reinforcing filler and 1 part of ethylpolysilicate were first milled in with the copolymer and then 1 part of dicumylperoxide vulcanizing agent was milled into the copolymer blend.

Example 9

A blend of copolymers was prepared which was identical to the first blend of Example 5 except that 66 parts of copolymer (A) and 34 parts of copolymer (B) were employed.

Example 10

A blend of copolymers was prepared which was identical to the second blend of Example 5 except that 65 parts of copolymer (A) and 35 parts of copolymer (B) were employed and dicumylperoxide was used as the vulcanizing agent.

Example 11

A blend of copolymers was prepared which was identical to that of Example 10 except that 60 parts of copolymer (A) and 40 parts of copolymer (B) were employed.

Example 12

Four copolymer blends were prepared which were identical to the blend of Example 8 except that all of them contained 5 parts of the ethylpolysilicate and 2 parts of the peroxide, and they contained 40, 25, 20 and 5 parts, respectively, of the reinforcing silica filler.

Lenses were press molded from these compositions using the same procedure as in Example 1.

Example 13

A blend of copolymers was prepared by adding about 5 parts of a trimethylsilyl treated reinforcing silica filler to about 30 parts of (A) a dimethylvinylsilyl endblocked copolymer gum consisting essentially of about 7.5 mol percent phenylmethylsiloxane units, about 0.14 mol percent methylvinylsiloxane units and about 92.36 mol percent dimethylsiloxane units, on a two roll mill. After the filler was milled in, about 40 parts of (B) a dimethylvinylsilyl endblocked copolymer gum consisting essentially of 20 mol percent methylvinylsiloxane units, 5 mol percent phenylmethylsiloxane units and 75 mol percent dimethylsiloxane units, about 0.75 part tertiary butyl perbenzoate and about 30 additional parts of copolymer (A) were added to the mill, with milling being continued about 10 to 15 minutes after the addition was complete.

Example 14

The procedure of Example 13 was repeated except that a total of 65 parts of (A) and 35 parts of (B) were used. Also, both copolymers (A) and (B) used in this example had a degree of polymerization of about 3500. The resulting blend had excellent clarity and therefore was useful as interlayer for safety glass and for making contact lenses.

Example 15

A blend of copolymers identical to that of Example 14 was prepared except that both copolymers (A) and (B) used in this example were fluids and had a degree of polymerization of about 1500. The procedure used in preparing this blend was as follows: First the filler and then the peroxide was spatula mixed into the fluid copolymers. The resulting crude dispersion was then placed into a Semco mixing pot and the dispersion mixed with a Semco mixer. After about 425 mixing strokes, an excellent lens was molded from the resulting copolymer blend.

Example 16

A blend of copolymers was prepared as follows: First three mixtures having compositions as indicated below were prepared. (1) was a mixture consisting of 21.67 parts of a base (composed of 16.67 parts of copolymer gum (A) and 5 parts of the filler of Example 13) and 16.67 parts of fluid copolymer (A) of Example 15. This mixture was prepared by slowly adding the fluid copolymer to the base on a two roll mill. (2) was a mixture consisting of 21.66 parts of fluid copolymer (A) and 35 parts of fluid copolymer (B), both of Example 15. (3) was a mixture