

[54] OPTHALMIC DEVICES FABRICATED FROM URETHANE ACRYLATES OF POLYSILOXANE ALCOHOLS

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[58] Field of Search ..... 351/160 R, 160 H; 204/159.13, 159.22, 159.23; 526/279; 528/32; 556/419; 525/474

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[57] ABSTRACT

Shaped articles, particularly ophthalmic devices, can be fabricated from oxygen transmissive, hydrolytically stable, polysiloxane copolymers of readily prepared poly(organosiloxane) monomers having monourethane acrylate groups and copolymerizable ethylenically-unsaturated monomers. The ophthalmic devices comprise copolymers of compositions containing 15 to 100 percent of said organopolysiloxane urethane acrylate and 85 to 0 percent of copolymerizable ethylenically-unsaturated monomers.

Ophthalmic devices which are fabricated from monourethane acrylates of polysiloxane alcohols have high oxygen permeability. A novel process is disclosed for the preparation of these polysiloxanes which have at least one urethane acrylate substituent.

31 Claims, No Drawings