

Preparation of acrylate polymer composition for foldable hydrophobic intraocular lens

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Cataract is a phenomenon that a lens of the eye becomes cloudy. It is caused by aging and its incidence rate is steadily increasing. Cataract is treated by implanting intraocular lens. In the past, Material of the artificial lens was PMMA. The disadvantage of this is that because it can't be folded, the incision is large, and the recovery time is long. So hydrophilic or hydrophobic acrylate monomer are using as Intraocular lens used today. In this study, we prepared foldable intraocular lens using acrylate polymer composition, and at this time, we investigated the change in physical properties according to the type and content of acrylic monomers.