

VISCOSITY CONTROL AND COLORANT CIRCULATION FOR PRINTING LENS MOLDS

ABSTRACT

Disclosed are systems including a colorant cup that is adjacent to a cliché, wherein the cup includes a vent, an interior roof portion, and an air gap beneath the roof portion; a reservoir containing colorant; a feed conduit in fluid communication with the reservoir; and a return conduit in fluid communication with the cup. Also disclosed are various methods in which colorants are transferred in the disclosed systems from the reservoir to the colorant cup. The disclosed systems, colorant cups and methods are useful in the preparation of tinted contact lenses.

Figure 1