

ABSTRACT

PROCESS FOR THE PRODUCTION OF POLYETHER POLYOLS WITH A HIGH ETHYLENE OXIDE CONTENT

Polyether polyols with an OH number of from 15 to 120 mg of KOH/g are produced by (i) introducing a mixture of DMC catalyst and a poly(oxyalkylene) polyol or a mixture of DMC catalyst and a polyether polyol ("heel") obtainable by the process according to the invention is initially into a reactor and (ii) continuously introducing one (or more) low molecular weight starter compound(s) with a (mixed) hydroxyl functionality of from 2.2 to 6.0 and a mixture composed of a) 73 to 80 parts by weight (per 100 parts by weight of a) plus b)) of ethylene oxide and b) 27 to 20 parts by weight (per 100 parts by weight of a) plus b)) of at least one substituted alkylene oxide corresponding to a specified formula into the mixture from step (i). These polyether polyols are particularly useful for the production of flexible polyurethane foams.

Figure: None