

METHOD FOR CONTINUOUS PRODUCTION OF
HIGH-MOLECULAR-WEIGHT POLYCARBONATE RESIN

ABSTRACT

5 The present invention provides an improved method for
continuously producing a high-molecular-weight polycarbonate
resin by carrying out a linking and highly-polymerizing reaction
of an aromatic polycarbonate prepolymer with an aliphatic diol
compound wherein the retention time of the reaction mixture in
10 the linking and highly-polymerizing reactor is shortened to
achieve excellent performance.

 The process comprises a process (A) for producing an
aromatic polycarbonate prepolymer by polycondensation reaction
of an aromatic dihydroxy compound with diester carbonate and a
15 process(B) for conducting linking and highly-polymerizing
reaction of the aromatic polycarbonate prepolymer with an
aliphatic diol compound in the linking and highly-polymerizing
reactor, wherein the aromatic polycarbonate prepolymer produced
by the process (A) is fed continuously to the linking and
20 highly-polymerizing reactor, while the aliphatic diol compound
is fed continuously thereto under reduced pressure of 10 torr
or less to carry out the reaction.

(Fig. 1)