Title (en)

METHOD FOR PRODUCING METHYL-METHACRYLATE POLYMERS IN A RECYCLE REACTOR

Title (de)

VERFAHREN ZUR HERSTELLUNG VON METHYLMETHACRYLAT-POLYMEREN IN EINEM KREISLAUFREAKTOR

Title (fr)

PROCEDE DE PREPARATION DE POLYMERES DE METHYLMETHACRYLATE DANS UN REACTEUR A RECIRCULATION

Publication

EP 0927197 A1 19990707 (DE)

Application

EP 97943868 A 19970918

Priority

- DE 19638094 A 19960918
- EP 9705125 W 19970918

Abstract (en)

[origin: DE19638094A1] The invention concerns methyl-methacrylate polymers with an heterogeneity of 1.0 to 1.2. Said polymers are obtained continuously by polymerization of monomers consisting of no less than 90 % by weight methyl-methacrylate in a recycle reactor, which has preferably at least a tubular reactor or a multitube-flow reactor, avoiding unwarranted wall deposits. Said polymers are produced in such a way that temperature during polymerization stands at 135-150 DEG C, the recycle relation is bigger than 20 when divided by the number of chargings per circulation loop, the mean effective axial circulation is faster than 5 cm/s, a polymerization initiator having a batch half change value of 3 to 10 min. is used, and the inflow concentration of the initiator is set in such a way that by a mean residence time of 1.3 to 2.5 hours a polymer rupture of 0.50 to 0.70 at the output of the reactor is achieved. Preforms having very good optical properties can be produced with the homogeneous polymers.

IPC 1-7

C08F 2/02

IPC 8 full level

B01J 19/24 (2006.01); **C08F 2/02** (2006.01); **C08F 20/14** (2006.01)

CPC (source: EP)

B01J 19/2435 (2013.01); **B01J 19/245** (2013.01); **C08F 2/02** (2013.01); **C08F 20/14** (2013.01); B01J 2219/00094 (2013.01); B01J 2219/00164 (2013.01)

Citation (search report)

See references of WO 9812229A1

Designated contracting state (EPC)

BE DE ES FR GB IT NL

DOCDB simple family (publication)

DE 19638094 A1 19980319; EP 0927197 A1 19990707; WO 9812229 A1 19980326

DOCDB simple family (application)

DE 19638094 A 19960918; EP 9705125 W 19970918; EP 97943868 A 19970918