

Title (en)
REACTOR SYSTEM FOR THE PRODUCTION OF HIGH IMPACT POLYSTYRENE

Title (de)
REAKTORSYSTEM ZUR ERZEUGUNG VON POLYSTYROL MIT HOHER SCHLAGFESTIGKEIT

Title (fr)
SYSTÈME DE RÉACTEURS POUR LA PRODUCTION DE POLYSTYRÈNE CHOC

Publication
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Application
EP 07753329 A 20070316

Priority
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Abstract (en)
[origin: CN101405313A] The present invention discloses a continuous process for producing high impact polystyrene comprising feeding at least one vinyl aromatic monomer, an elastomer, and a free radical initiator to a first linear flow reactor to form a reaction mixture, polymerizing the reaction mixture in said linear flow reactor to at least the phase inversion point of the mixture, and feeding the reaction mixture from the first linear flow reactor to a second reactor for post-inversion polymerization of the mixture. A method of producing an elastomer-reinforced polymer comprising inverting a reaction mixture comprising at least one vinyl aromatic monomer, an elastomer, and a free radical initiator in a plug flow reactor. A high impact polystyrene reactor system, comprising a linear flow reactor having an inlet and an outlet, and a continuously stirred tank reactor having an inlet in fluid communication with the linear flow reactor outlet and receiving an effluent from the linear flow reactor.

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Citation (search report)
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• [I] WO 0194434 A1 20011213 - DOW CHEMICAL CO [US]
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• [AP] WO 2006124297 A2 20061123 - FINA TECHNOLOGY [US], et al
• [A] US 2727884 A 19551220 - MCDONALD DONALD L, et al
• See references of WO 2007109167A2

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