Title (en)

USE OF TETRAFUNCTIONAL INITIATORS TO IMPROVE THE RUBBER PHASE VOLUME OF HIPS

Title (de)

VERWENDUNG VON TETRAFUNKTIONELLEN INITIATOREN ZUR VERBESSERUNG DES KAUTSCHUKPHASENVOLUMENS VON HIPS

Title (fr)

UTILISATION D'INITIATEURS TÉTRAFONCTIONNELS POUR AMÉLIORER LE VOLUME EN PHASE CAOUTCHOUC DU POLYSTYRÈNE ANTICHOC (HIPS)

Publication

EP 1718687 A1 20061108 (EN)

Application

EP 04811417 A 20041118

Priority

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Abstract (en)

[origin: WO2006054995A1] It has been discovered that improved polystyrene products, such as high impact polystyrene (HIPS), may be obtained by polymerizing styrene with a diene polymer in the presence of at least one multifunctional initiator. The presence of the multifunctional initiator tends to cause more branched structures in the polystyrene. Unexpectedly, the ratio of % gel to % rubber (G/R or rubber phase volume) increases as the swell index increases which is the opposite of the conventional trend. Additionally, acceptable G/R values can be achieved at increased polymerization rates with these initiators.

IPC 8 full level

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