ABSTRACT

CONTROL OF POLYMER ARCHITECTURE AND MOLECULAR WEIGHT DISTRIBUTION VIA MULTI-CENTERED SHUTTLING AGENT

A process for the polymerization of one or more addition polymerizable monomers and the resulting polymer composition, said process comprising contacting an addition polymerizable monomer or mixture of monomers in a reactor or reactor zone with a composition comprising at least one polymerization catalyst and a cocatalyst under polymerization conditions, characterized in that at least a portion of said polymerization is conducted in the presence of a multi-centered shuttling agent thereby causing the composition to have a bimodal molecular weight distribution.

Fig. 1

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