

Title (en)

METHOD OF PREPARING PARTICULATE CROSSLINKED POLYMER

Title (de)

VERFAHREN ZUR HERSTELLUNG VON TEILCHENFÖRMIGEM VERNETZTEN POLYMER

Title (fr)

PROCEDE DE PREPARATION DE POLYMERES RETICULE, SOUS FORME DE PARTICULES

Publication

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Application

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Priority

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Abstract (en)

[origin: WO0222701A2] Described is a method of preparing particulate crosslinked polymer, which comprises: (a) preparing a polymerizable organic phase; (b) forming a suspension of droplets of the organic phase in a liquid suspension medium, the organic phase being substantially insoluble in the liquid suspension medium; and (c) polymerizing the suspension of droplets of the organic phase in the liquid suspension medium, thereby forming particulate crosslinked polymer. The organic phase comprises: (1) a first component comprising, (i) at least one of a polyisocyanate having at least two isocyanate groups and a polyepoxide having at least two epoxide groups, and (ii) optionally a capped polyisocyanate having at least two capped isocyanate groups; and (2) a second component comprising an active hydrogen functional reactant having at least two active hydrogen groups that are reactive with the isocyanate groups and epoxide groups of the first component, the active hydrogen functional reactant comprises a polyamine having at least two functional groups selected from primary amine, secondary amine and combinations thereof.

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IPC 8 full level

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