

Title (en)

TWO-STEP METHOD FOR DIPPING SYNTHETIC FIBER

Title (de)

ZWEISCHRITTVERFAHREN ZUM TAUCHEN VON KUNSTFASER

Title (fr)

PROCEDE DE TREMPAGE DE FIBRES SYNTHETIQUES A DEUX ETAPES

Publication

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Application

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Abstract (en)

[origin: WO2005026239A1] The invention relates to a two-step method for dipping a synthetic fiber wherein the fiber is first dipped with an aqueous pre-dip composition followed by a dip with resorcinol-formaldehyde latex (RFL) composition, characterized in that the pre-dip composition comprises a blocked isocyanate having at least tri-functional isocyanate groups and a latex wherein the ratio by weight of blocked isocyanate and latex is between 9 and 0.7, preferably between 4 and 1. The invention further pertains to a pre-dip composition for dipping a synthetic fiber, comprising a blocked at least tri-functional isocyanate compound and a latex, further comprising water, an emulsifier, and 2-vinyl pyridine copolymer and to a fiber, cord, and composite article of rubber and fiber or cord, wherein the fiber or cord has distributed over at least a surface portion thereof (1) blocked tri-functional isocyanate compound, preferably HDI-trimer; (2) an RFL adhesive; and (3) an in situ vulcanized rubber compound.

IPC 1-7

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IPC 8 full level

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