

Title (en)

COPOLYMERIZED ARAMID DOPE-DYED YARN AND METHOD FOR PREPARING SAME

Title (de)

COPOLYMERISIERTES BADGEFÄRBTES ARAMIDGARN UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

FIL ARAMIDE COPOLYMÉRISÉ TEINT DANS LA MASSE ET SON PROCÉDÉ DE PRÉPARATION

Publication

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Application

**EP 14877413 A 20141224**

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Abstract (en)

The present invention relates to a copolymerized aramid dope-dyed yarn and a method for preparing the same wherein, when a copolymerized aramid yarn is prepared by adding terephthaloyl dichloride to an organic solvent in which an aromatic diamine having a cyano group is dissolved, reacting the same to polymerize a polymerization solution containing a copolymerized aramid polymer, and then spinning and coagulating the polymerization solution, a copolymerized aramid dope-dyed yarn is manufactured by adding a coloring matter having a cation during the polymerization process of the polymerization solution containing the copolymerized aramid polymer. The present invention can effectively prevent deterioration in a polymerization degree of the copolymerized aramid polymer or deterioration in the dissolubility of the polymerization solution due to the addition of the coloring matter to the polymerization solution. Further, according to the present invention, when a copolymerized aramid polymer having a cyano (-CN) group and a coloring matter having a cation are bonded through a hydrogen bond to form a liquid crystal during the polymerization process of the polymerization solution containing the copolymerized aramid polymer, the behavior together with a main chain of the copolymerized aramid polymer is possible, thereby enhancing the color

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