

METHOD FOR DYEING NYLON FILAMENTS

A B S T R A C T

A method for dyeing nylon filaments for use in wear-indicating toothbrushes includes immersing a batch of a first nylon filament for between 10 minutes and 80 minutes in an aqueous solution containing between 0.01% and 0.19% weight to volume of Indigotine dye, said solution having a pH between 1 and 7 and having a temperature between 50°C. and 90°C., the dye penetrating into the filament to color an outer cross-sectional region and not penetrating into an inner cross-sectional region of the filament; removing the batch of the first nylon filament from the solution, and repeating the steps for a batch of a second nylon filament, reusing the same solution.