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Title

Dyeing of the Dyes Extracted from Amur Cork Tree onto Chitin/Cellulose Composite Fiber

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Abstract

The chitin/cellulose composite fiber, CR20 (containg chitin of 20% and cellulose of 80%.) was dyed with the natural dye extracted from Amur Cork Tree. The K/S (K: the extinction coefficient, S: the scattering coefficient) value of the dyed CR20 was determined. The K/S of the dyed CR20 was high as the pH of the dyebath was high in the pH range of 3.04 to 7.16. It was also revealed that the dyeability towards this dye was high in the following order: silk > CR20 > CR10 > CR3 > rayon > cotton where, CR10 and CR3 contain chitin of 10%, cellulose of 90% and chitin of 3%, cellulose of 97%, respectively.

Key words

dyeing, chitin/cellulose composite fiber, natural dye, Amur Cork Tree