

去叶芹菜纸的介观结构及机械性能研究 Properties and Micro-structure of Leaf Cut-off Celery Paper

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关键词: 蔬菜纸 芹菜纸 机械性能 纤维分析 介观结构

摘要: 为提高用于包装的蔬菜纸机械性能, 采用整棵或分切后打浆并配合打浆的粗细程度, 在中试条件下制备了2种去叶芹菜纸样本。利用L&W纤维分析仪分析了打浆粗细程度, 利用测量显微镜及显微图像分析系统表征了芹菜纸的介观结构, 在标准环境下测试了机械性能并分析了变化情况。结果表明, 去叶芹菜纸样本S1的抗张强度是样本S2的1.323倍; 与带叶芹菜纸相比, 总体上去叶芹菜纸的抗张强度是带叶芹菜纸的2.326倍, 且断裂延伸率较好。In order to raise the mechanical properties of vegetable paper used for packaging, the entire or sectioned leaf cut-off celery was macerated to different degrees and two samples of leaf cut-off celery paper were prepared under the condition of middle scale production. Fiber analyses were given by Swedish L&W fiber tester. The microstructure characteristics of leaf cut-off celery paper were presented through photographs from the Olympus microscope and micro-photograph analyzer. Mechanical properties were tested under standard conditions and their variation was analyzed. Results show the differences in tensile strength is 1.323 times between two samples. Compared with leafed celery paper, the tensile strength of leaf cut-off celery paper is generally 2.326 times greater and leaf cut-off celery paper also has better break percentage elongation.

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