

analysis indicated that FPAE can slightly reduce fabric crystallinity and the crystallization index from 85.20% to 83.32% and from 88.87% to 87.45%, respectively. It was concluded that FPAE emulsion had less of an effect on the internal structure of flax. In addition, some application properties of linen fabric were tested and the results indicated that the increase in G04 was beneficial to the breaking force as well as the waterproof and antifouling ability of the linen fabric. Moreover the wash resistance was excellent and the wear-resistance of the finished linen fabric was better than for the unfinished linen fabric; however, it had a negative effect on bending rigidity as well as the air and moisture permeability.



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