

магой. Использование клея, который используется при нижних рабочих температурах (120-160°C) и имеет большую вязкость, за счет которой обеспечиваем стабильную толщину клеевого шара, операция торшониования необходимо для данного типа бумаги.

В исследовании на определения удельного усилия вырыва листа худшее качество скрепления (1,7 Н/см) показал образец без торшониования форматом 70x100/16, 96 стор., длина корешка 25 см, клей Swift®therm. Лучшее качество скрепления (8,6 Н/см) показал образец форматом 84x108/16, 80 стор., длина корешка 26 см, клей Technomelt.

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### **SELECTION OF THE MAIN COMPONENTS FOR DOMESTIC BIODEGRADABLE INKS**

The relevance of ecological packaging, safe for the consumer and the environment, stimulates the development of printing inks biodegradable. The aim of the work was to search for components for the creation of domestic environmentally friendly printing and varnishing materials for packaging, which decompose without harming nature and the environment and contribute to the improvement of production and technological processes of manufacturing and packaging design and their environmental recycling.

Studies of aqueous solutions of natural polymers of potato, corn starch, wheat protein, casein were conducted. These film-forming were taken in dry and pasty form. Water was used as a solvent. It has been experimentally determined that film-forming substances based on corn starch paste give the most approximate results to the established technological requirements for inks for flexographic printing.

For biodegradable printing inks, one of the main problems is to ensure the stability of their properties over time while simultaneously maintaining a high degree of drying on the print and matching them to mechanical impact. To this end, a search was made for antiseptics for the paint being developed, among such substances: silver nitrate, potassium alum, chromium alum, triethanolamine, borax, ethyl alcohol. To ensure the stability of the paint during storage and prevent its deterioration, satisfactory results were shown by triethanolamine and ethyl alcohol in the proportion studied.

Further active development of biodecomposable printing materials for packaging is aimed at developing a recipe for solving the problem of fast fixing of paint removers and forming their gloss, light resistance, with the implementation of the condition of stability, environmental friendliness, availability and renewability of materials.