Study on secondary application of plants remainders in industry

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Nowadays, economic and vital importance of plants is obvious for every one. But on recognition of these blessings applications and using the artificial and chemical alternatives has increased skin and respiratory disease, beside contamination of the environment. The presence of some compounds such as Tamins and antibacterial prevent decomposers activity and thus the plants residual increase and in addition to contaminating environment, can cause fire. Extractions of these plants compounds and their usage for economic purposes, reduce their preventive effects on decomposers activity, and lead to better decomposition of plants residuals and their return to the life cycle. In this research 40 species of plants based on the presence of dyeing compounds were recognized and collected. Samples were dried in oven in 50-60°C for 48 hours. Using dyeing method contemporaneous plant powders and natural mordant (black, green and white) in acidity color bath. Then yarns were dried in shade and light stability of yarns was determined on the basis of ISO-105 B01:1989(E). Result showed that spectrum in the presence of green and black mordants were more stable than white mordant. Results revealed that 53.75 percent of spectrum were very stable and 27.5 percent stable. Considering capability of very stable and stable spectrum in industry, 81.25 percent of spectrum obtained from dye yarns with remainder of plants could be applied in industry.

Keywords: Plants remainder, Industry dyeing, Mordant and natural yarns, Dyeing compound

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