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STUDY ON RECYCLING FEASIBILITY OF ACTIVATED GLASS FROM WEEE EQUIPMENT TREATMENT

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Abstract

The main purpose of this paper is to identify, highlight and analyze the recycling possibilities for the activated glass derived from the treatment of the cathode ray tubes (CRT) waste equipment and to demonstrate the recycling viability, economical and environment protection efficiency.

A total of 95 pieces of waste electronic equipments (TVs and PC monitors) were processed and a number of five TVs and five PC monitors from the '95s were analyzed. Significant quantities of lead were contained in the funnel area of the CRTs. The samples for funnel glass produced an average concentration of 1.4 mg/kg lead which exceeds the regulatory limit of 0.2 mg/kg.

The results of the testing shows the Romanian WEEE flow and composition, that could be for all actors involved in environmental protection a base to establish the proper CRT glass recycling way.

Key words: CRT, glass recycling, lead leachability, waste electrical and electronic equipment (WEEE), waste treatment

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