



EMPAQUES PLASTICOS DE MEXICO S.A. DE C.V.

Los Reyes La Paz, Estado de México.

BIODEGRADABLE PVC



PVC as well as other plastics was developed to resist what makes it useful in many applications but it makes disposal problematic. However, the polymer is 100% recyclable and can be reused in the manufacture of new products. Is identified with the number 3 in the catalog of recycled plastics to facilitate the recovery of waste products made from this material. This option of reducing and recycling is always preferable to incinerating it or sending it to landfills because it saves valuable raw materials.



Like most thermoplastics, until recently there was no method to do it biodegradable, but was lately discovered a new way of biodegradation; oxodegradación was not applicable to PVC and the use of biopolymers developed from starch . Anaerobic hydrocarbon biodegradation in landfills occurs when adding additives to specially developed formulations and modifications in the manufacturing method that catalyze this process under anaerobic conditions by the enzymes of the cyanobacteria present in the landfill break hydrocarbon chains producing biogas (methane) and biomass. Laboratory tests show that under the conditions of humidity, temperature and oxygen deprivation existing in sanitary landfill, the polymer decomposes within a few months even making the chlorine in a soluble form of chlorine that acts as a fertilizer. The way this happens is still being investigated but it is possible to obtain a decomposition without toxic by-products.

This makes the PVC in a biodegradable product with several advantages. The use of biodegradable starch-based require more energy to manufacture and use agricultural resources for food required. Also they do not have the best physical properties of resistance that has the PVC. The oxodegradación breaks down long chains of polymers in shorter chains that destroy the product but not really a biodegradation and plastic stays in microscopic form.

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On the other hand, by not allowing the aerobically degradable product made with specially formulated PVC does not have an expiration time and allows you normally recycled without losing its properties and decay only when the conditions associated with a landfill.

When considering these factors the use of PVC can be considered far more environmentally friendly.

Empaques Plásticos de México, SA de CV, interested in preserving the environment makes available to its customers this new discovery for those concerned that the packaging is not recycled and end up in municipal landfills decay times excessive.

In addition to this development Empaques Plásticos de México, SA de CV has a plan for recovery of waste PVC shrink film from his customers to put in the hands of recyclers interested in making it into new products.

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