

Product Features

- In properly controlled landfills BIOflex PVC will vanish in 3 to 5 years
- 80% of the content is derived from sources other than petroleum
- Formula is non-toxic
- Contains no heavy metals, pesticides, bleaching agents, DOP or similar plasticizers, glycol ether or carcinogenic coloring agents
- Tear and fade resistant
- Compatible with UV, solvent and screen printers
- Available seamless 54", 63", 72", 126" and 198" widths
- Can be RF and heat welded
- Fire certified for NY MEA; NFPA 701 and CA Fire Marshal Title 19 test
- Patent Pending

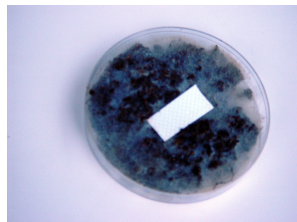
Formula Details

PVC has a remarkable balance of properties; it is strong, resistant to oil, chemicals, sunlight and weather. PVC is also flame resistant, easily decorated and low in cost. At one time, PVC was often formulated with little regard for avoidance of toxic ingredients. This is no longer true. BIOflex™ PVC contains no toxic materials. It is composed of pure PVC resin, fine particle limestone to provide opacity, plasticizer of vegetable origin to provide flexibility and the titanium pigment used in high quality paints to add sunlight resistance. More than 80% of the content of BIOflex is derived from sources other than petroleum.

Before BIOflex, PVC had been immortal in the landfill; no degradation was found after decades of landfill burial. When degradable materials, such as starch, were added, they were consumed in the landfill but the PVC itself was untouched. Ultraflex Systems has developed a nontoxic formula that, at very low levels, enables landfill decomposition of BIOflex PVC. BIOflex has been engineered to be the first truly environmentally friendly, biodegradable PVC. Worldwide patents covering the BIOflex composition are pending.

In the landfill, the carbon and hydrogen content of BIOflex are partly consumed by the biomass organisms and partly released as methane from fermentation. In a well managed landfill, methane is harvested for use as fuel. The chlorine content of BIOflex is partly consumed and partly converted to soluble chloride, this has value as fertilizer since it makes soil nitrogen more rapidly available to plants. In experiments using landfill into which BIOflex had decomposed as compost in potting soil, plants and vegetables sprouted more rapidly than in controls.

Standard PVC vinyl that has been in a landfill for 30 days.



BIOflex PVC vinyl that has been in a landfill for 30 days.

