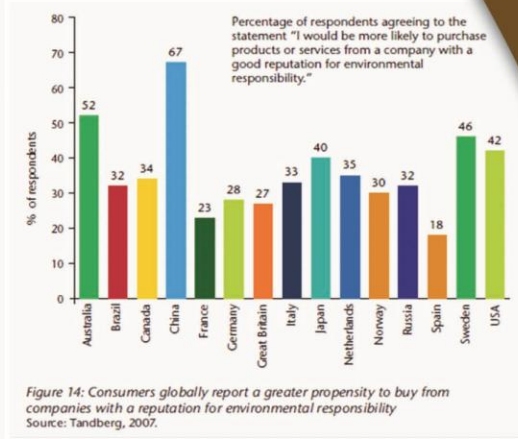
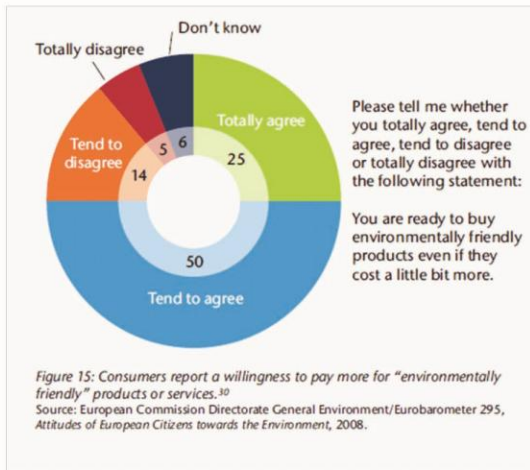


**POLYDIME** has been associated with the plastics industry since 1998 producing Polythene in roll, bag and pouch form, Alkathene and drip irrigation pipes, multilayer lamination films and pouches. We take pride in being one of the sought after names in the plastics packaging industry in Sri Lanka & Internationally.

## THE GLOBAL WASTE PROBLEM

Global waste output is said to be at around 1.3 Billion MT/day. This is said to double over the next 10 years based on World Bank statistics. A good 7% of this waste is Plastic and 350MT of this plastic finds its way into a landfill.

## THE WORLD IS MOVING TOWARDS SUSTAINABILITY



Plastic based products have always been in the limelight as a non-sustainable product option. However with new product innovations in the market options have been available to make plastic more sustainable with recycling techniques and of late making the product biodegradable.

## THE GROW BAG - A VERY COMPLEXED PRODUCT

Is it impossible to make a Grow Bag biodegradable?



The world is moving rapidly towards sustainability. Plastic based products have always been in the limelight as a non-sustainable product.

### POLYDIME INTERNATIONAL (PVT) LTD

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Hotline  
**0777306412**



## INNOVATION

Polydime teamed up with Bioetch Environmental LLC in the US. Biotech has been awarded ten international patents for “Eco-pure” which is a product that make many substrats biodegradable under both Anaerobic and Aerobic conditions.

Our teams formulated a special Polymer based blend that was looked at to ensure that a grow bag maintains its mechanical characteristics and then biodegrades under Anaerobic Conditions.

## WHAT IS ECOPURE?



EcoPure is an organic additive that causes plastic to biodegrade through a series of chemical and biological processes when disposed of in a microbe-rich environment such as a landfill. It allows the plastic to be consumed by the microbes present.

## PROCESS

Grow Bag used in a Green House

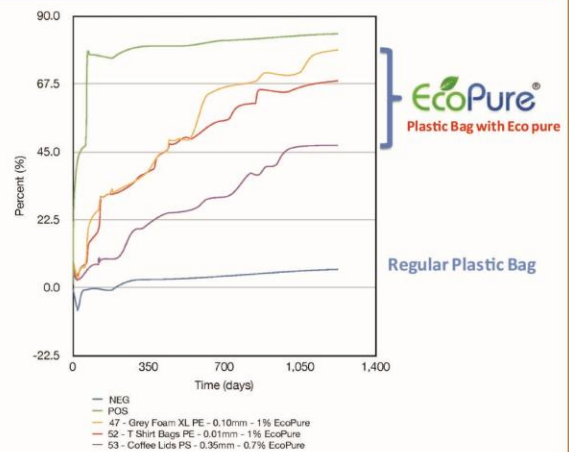
ONCE SERVICE LIFE IS OVER PEAT  
DISPOSED

BAG THROWN INTO A CONVENTIONAL  
LANDFIL

ANAEROBIC MICROBES START  
INTERACTING AND CONSUMING THE BAG

METHANE AND CO2 IS ENMITTED AND  
BIOMASS IS LEFT OVER

## Trial Results by Biotech Environment Services



## SCIENTIFIC STUDIES

Scientific studies have been conducted based on ASTM-D5511 that confirms 70% of the bag degrades in just over 1000 days in a landfill. Trials continue to show positive results. Tests are continuing to be run based on ASTM-D6400 to determine if the product is compostable.

(Refer to technical study done by 3rd part laboratory in main product brochure)

Test Method : ASTM D-5511  
Testing Laboratory: Eden Research Laboratory  
Number of Days Plastic Samples were tested: 1779 Days  
Percent Biodegradation: 80%

### Polyethylene Bag Test



## MARKETING CONCEPT

We will grant free of charge access to all EcoPure material on our web site [www.goecopure.com](http://www.goecopure.com) which can be included with laymens text so that all stakeholders can view the benefits of EcoPure in your product.



## AWARDS

This product has been won Asian and Global Recognition.

