



GICOM

COMPOSTING SYSTEMS





GICOM

COMPOSTING SYSTEMS

Presentation of GICOM Composting Systems on the precautions off using Bio- degradable bags



GICOM

COMPOSTING SYSTEMS

Precautions and experience

1. Biodegradability
2. Screening
3. Wind shifter
4. Composting process
5. Tests
6. Tests ACE



GICOM

COMPOSTING SYSTEMS

1. Biodegradability

Certification and standards;

EN 13432: after 3 months 90% smaller than 2mm, after 6 months biodegradation level 90%

Classification;

VGS gives the durability for the bags, 1 - 5 weeks



GICOM

COMPOSTING SYSTEMS

2. Screening and bag opening



* Size off screen and size off bio-bag.

* Bag opener





GICOM

COMPOSTING SYSTEMS

3. Wind shifter



The wind shifter is a part off the process.

After the first phase the biodegradable plastic has to be decomposed that far that the wind shifter can not take it out of the process.



GICOM

COMPOSTING SYSTEMS

4. Tunnel composting process



Bags must be opened-up as much as possible

The material is accessible for bacteria.

The material can be mixed



GICOM

COMPOSTING SYSTEMS

5.Test

June 2005

For the test the bag has been filled with 6 - 8 kg of mixed waste.

Bags has been perforated so that bacteria had access to the waste.

The bags have been put into net bags and covered by waste.

Material has been in the tunnel for 5 days followed by 8 days



HIDURBE
Gestão de Resíduos, S.A.



MESQUITA
CONSTRUÇÃO

Paper bags

After 5 days tunnel composting

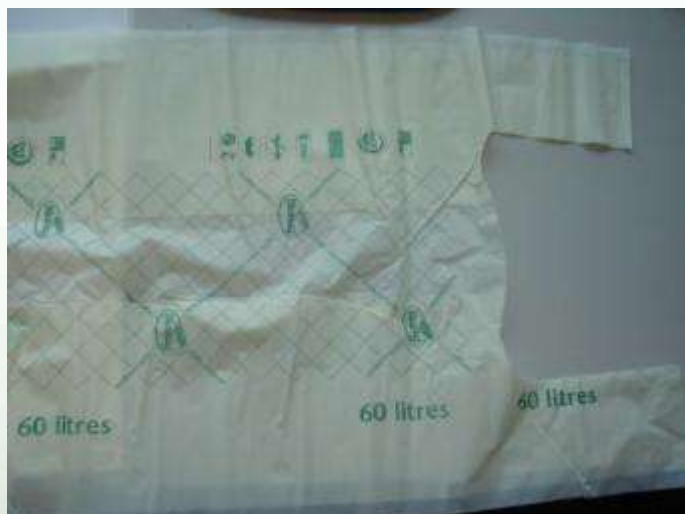


After 5 days + 8 days



Biodegradable plastic

New



After 5 days



After 5 + 7 days





GICOM

COMPOSTING SYSTEMS

6 ACE Test

June 2010

Biodegradability; Some tests will be done in the same way as Gicom did in netbags also filled with waste to exclude the influence of the netbags

Screening test; For a reliable result you need to have a normal tunnel load of expected quantity of bags in the mixture to give a reliable result



GICOM

COMPOSTING SYSTEMS

Thank you for your attention!

**GICOM Composting Systems Oogstweg 9
8256SB Biddinghuizen Holland
Contact: Cees Monster**

**www.gicom.nl
info@gicom.nl**

**Tel +31 321 332 682
Fax +31 321 332 784**

**HIDURBE-MESQUITA-ACE
Exploitation of LIPOR Composting Plant
Contact: Paula Barros Morgado geral@compostagem.org**

Tel +351 229 774 330

