

# **Exhibit 1**

# AMERICAN PLASTIC MANUFACTURING

Maker of custom printed plastic bags



[Biodegradable](#) [Contact](#) [Home](#)

[Going Green](#)

## Main Menu

Products

[Color Options](#)

[Line Cards](#)

Biodegradable Bags

[Reusable & Biodegradable](#)

[Going Green](#)

[Stock Bags](#)

[Contact Us](#)

[Get a Quote](#)

[Art Specifications](#)

[Home](#)

[Mailing List](#)

## About American Plastic Manufacturing

### 6 Color Printing now available!

Our new printing press is capable of printing up to six spot colors. Print six colors on one side, or 3 colors on both sides, or 5 on the front and 1 on the back. Any combination that adds up to six.

[Contact us for details](#)

American Plastic Manufacturing has been producing quality plastic bags for **Trade Shows, Retailers, Food Packaging** and many others since 1992 in our Seattle plant. Delivery is available to anywhere in the U.S. or Canada.

### Fast Delivery

Our specialty is producing and delivering custom printed bags in 2 to 3 weeks from approval of artwork.

### Biodegradable bags

We are now offering biodegradable bags in both high and low density plastic!



[More information.](#)

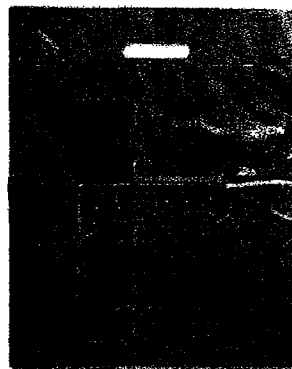
### How to order our bags

American Plastic Manufacturing sells exclusively through distributors.

To find a distributor in your area, please visit our [Contact page](#) and let us know what you are looking for.

If you are a distributor and would like to receive a competitive quote quickly, visit our [Contact page](#) for email and phone numbers.

Minimum order for custom printing is 3,000 bags.



### Plastic Bag Myths

Many popular beliefs about the environmental impact of plastic bags are exaggerated or just plain wrong.

[Learn the facts...](#)

### Biodegradable Bags

American Plastic is now producing bags that are 100% biodegradable and recyclable!

[More info...](#)

### Reduce, Reuse, Recycle

The best solutions for reducing waste involve reducing use, reusing when possible, and recycling.

[Here's some ideas...](#)

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[Biodegradable](#) [Contact](#) [Home](#)

[Going Green](#)

## Main Menu

[Products](#)

[Color Options](#)

[Line Cards](#)

[Biodegradable Bags](#)

[Reusable &  
Biodegradable](#)

[Going Green](#)

[Stock Bags](#)

[Contact Us](#)

[Get a Quote](#)

[Art Specifications](#)

[Home](#)

[Mailing List](#)

## Biodegradable Bags



Environmental issues are important to everyone. We are doing our part by offering 100% Biodegradable bags!

Our biodegradable bags break down completely when in contact with other decomposing materials; in compost bins, landfills, or just buried in the ground. These bags can also be recycled along with regular plastic bags.

Unlike starch based compostable bags and oxo-biodegradable bags, these bags won't degrade in the presence of oxygen, heat, or sunlight, so they can also be reused until no longer serviceable. Any bag we make can be produced as biodegradable.

Our biodegradable bags are made using traditional resins combined with an additive from ECM Biofilms that allows the plastic to completely biodegrade within a few years. For more information about the technology used to make our biodegradable bags, visit [www.ecmbiofilms.com](http://www.ecmbiofilms.com).

### "This Bag is Biodegradable" logos

When we make biodegradable bags, we also offer our stock "This Bag is Biodegradable" logo. This logo helps inform consumers about how to dispose of the bag. Two versions of this logo are available for use. Choose the one that works best for you.



**Option A** - Tells consumers that the bag will biodegrade but does not relay information about recycling.



100% Biodegradable and Recyclable

**Option B** - Tells consumers that the bag is biodegradable and is also recyclable.

### RECYCLED and RECYCLABLE

American Plastic can also provide bags made using post-industrial recycled plastic – much of which comes from our own scrap. All of our bags can be recycled. Recycle logos can be added to your bags at no additional cost.

### Biodegradable or Compostable?

These words are interchanged a lot these days, but their meanings are completely different.

### Plastic Bag Myths

Many popular beliefs about the environmental impact of plastic bags are exaggerated or just plain wrong.

[Learn the facts...](#)

### Biodegradable Bags

American Plastic is now producing bags that are 100% biodegradable and recyclable!

[More info...](#)

### Reduce, Reuse, Recycle

The best solutions for reducing waste involve reducing use, reusing when possible, and recycling.

[Here's some ideas...](#)

**Compostable** bags are starch based Polylactic Acid (PLA) from corn and other crops. PLA decomposes in conditions found at municipal composting facilities, but not in compost bins, landfills or when littered. Compostable plastic also cannot be recycled.

**Biodegradable** bags will break down completely when in contact with decomposing organic waste - even in a landfill where practically nothing degrades. They can also be recycled along with other plastic bags.

### **What about paper bags?**

When comparing plastic and paper, plastic always comes out on top.

#### **Here are a few facts:**

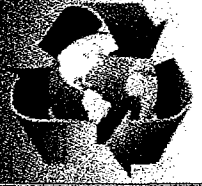
- Paper bags require 4-5 times more energy to produce, transport and recycle, than plastic.
- Paper bags are responsible for 70% more air pollution and 50 times more water pollution than plastic.
- Plastic bags generate 80% less solid waste than paper.
- Recycling plastic requires 91% less energy than paper.
- The manufacture of paper bags uses 40% more energy than plastic bags.

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[Biodegradable](#) [Contact](#) [Home](#)

[Going Green](#)

## Main Menu

[Products](#)

[Color Options](#)

[Line Cards](#)

[Biodegradable Bags](#)

[Reusable & Biodegradable](#)

[Going Green](#)

[Stock Bags](#)

[Contact Us](#)

[Get a Quote](#)

[Art Specifications](#)

[Home](#)

[Mailing List](#)

## Eco-friendly bags from all perspectives!

### Reusable, Recyclable, and Biodegradable bags

New from American Plastic

Constructed of heavy-duty low density film, with soft-loop handles, our new reusable bag is also 100% recyclable and completely biodegradable.

Reusable bags are gaining popularity across the nation. Most are imports made from recycled polypropylene. Unfortunately, when these bags reach the end of their usable life, they can't be easily recycled, and just end up in the landfill.

American Plastics new reusable and biodegradable bag is made thick, so it will stand up to many trips to the store, formulated to be recyclable with other plastic bags, and if it does end up in a landfill or even as litter, it is 100% biodegradable.

Available in any of our standard film colors. In widths from 10" to 26" and heights from 12" to 22", with bottom gussets up to 6".

Use your custom art, or our stock design shown above (2 color front, 1 color back)

Made in the USA.

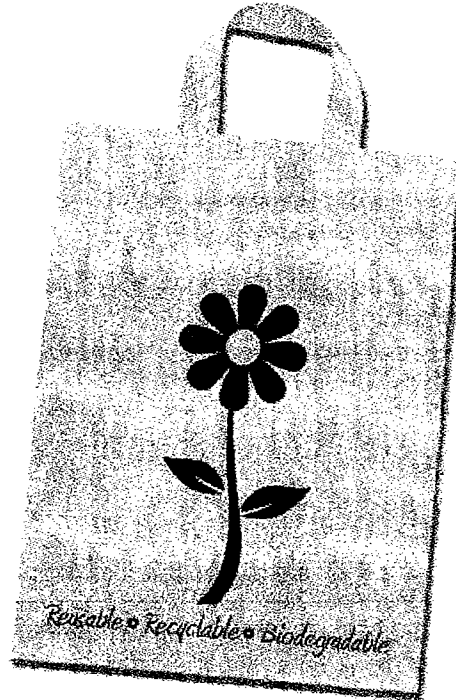
Sizes (measurement excludes handle):

- Width: 10" to 26"
- Height: 12" to 22"
- Bottom Gusset: 0" to 6"
- Film Thickness: 2.5 to 3.5 mil
- [Print Area Information](#)

[Request a Quote](#)

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### Plastic Bag Myths

Many popular beliefs about the environmental impact of plastic bags are exaggerated or just plain wrong.

[Learn the facts...](#)

### Biodegradable Bags

American Plastic is now producing bags that are 100% biodegradable and recyclable!

[More info...](#)

### Reduce, Reuse, Recycle

The best solutions for reducing waste involve reducing use, reusing when possible, and recycling.

[Here's some ideas...](#)

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[Biodegradable](#) [Contact](#) [Home](#)

[Going Green](#)

## Main Menu

[Products](#)

[Color Options](#)

[Line Cards](#)

[Biodegradable Bags](#)

[Reusable & Biodegradable](#)

[Going Green](#)

[Stock Bags](#)

[Contact Us](#)

[Get a Quote](#)

[Art Specifications](#)

[Home](#)

[Mailing List](#)

## It's not easy being green...

**Biodegradable** is a popular word these days. Everyone is concerned about the environment. But it's also a word that is easily misunderstood. Biodegradable bags come in several forms, but there are big differences between them... and it's very possible that none may be the right choice for your client.

Before deciding on biodegradable bags, understanding the environmental concerns is essential. Especially in areas where laws exist concerning plastic bags.

Simply defined, biodegradable means that an item will break down into natural organic matter. How this happens is where things get complicated. Different types of biodegradable plastic have different triggers to start the breakdown: exposure to oxygen, high heat, mechanical stress, UV, presence of other decomposing material, etc.

**Compostable bags**, made of PLA, a starch based polymer, are made using corn or other food crops. These require very specific high-heat aerobic conditions found in municipal composting facilities to break down. These have to be sent to a composting facility to break down, and can't be recycled.

**Oxo-biodegradable plastic** breaks down when exposed to sunlight and heat. These will disintegrate if left outside, or littered, and can be recycled

**American Plastic Mfg.'s biodegradable bags** are made with an additive from ECM-Biofilms that allows plastic to break down when in contact with other decomposing organic matter. For most applications, we feel **this is the best biodegradable option**. These bags have all the properties of normal plastic bags, can be reused and recycled with other plastic bags, and if littered or landfilled, will biodegrade safely.

### The downside of biodegradable plastics

There are no easy answers when it comes to the environment. Biodegradable plastics aren't always the best solution. Consumers may be confused about the proper disposal method for the particular item, as the terms can be confusing. They may also be prone to careless disposal, assuming that biodegradable bags pose no environmental harm if littered, which isn't true. Biodegradable bags also, just like organic matter, produce methane when breaking down, which can contribute to global warming.

### A misconception about landfills

Much has been written about how plastics last forever in landfills. But contrary to popular belief, landfills are engineered specifically to prevent their contents from degrading. When items degrade organically, harmful gasses and toxic chemicals are produced. Landfills are lined to protect the surrounding environment, covered to protect the contents from weather, and eventually buried. All in an effort to keep the contents from breaking down. **Plastic bags remain inert in landfills**, making them one of the safest things, environmentally, that landfills contain. However, recycling bags is the best method of disposal.

### The other costs of packaging

To assess the **environmental impact** of a product, many factors must be considered. The fuel used and pollution created when producing and transporting raw material, and the energy used

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[Learn the facts...](#)

### Biodegradable Bags

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[More info...](#)

### Reduce, Reuse, Recycle

The best solutions for reducing waste involve reducing use, reusing when possible, and recycling.

[Here's some ideas...](#)

and waste created to produce the product and transport to the market. Among disposable bags, polyethylene bags are the cleanest and most energy efficient product available. Bag for bag, plastic bags use far less fuel and produce far less pollution than paper. Recycling plastic also requires far less energy and resources than recycled paper.

### So... what's the recommendation?

Plastic bag recycling is becoming more and more commonplace. With rising concerns about oil consumption and pollution, polyethylene bags are actually **the best environmental option**. Polyethylene is made from refining waste that would be burned off if not converted. Plastic bags are **100% recyclable**, can be **reused many times**, are **transported cheaply** and efficiently due to their light weight, create **very little pollution** in production, and if sent to a landfill remain inert and take up very little space. Only when littered do plastic bags pose a risk to the environment, and littering is a problem best solved through public education.

### What about reusable bags?

The public perception is that reusable bags are a great solution. But when considering all the costs, the **bottom line is unclear**. Growing and processing cotton for fabric bags consumes vast amounts of water, and have higher transportation costs. Low price reusable bags are made mainly from polypropylene, which most recycling centers don't process, are produced mainly in China, and shipped across the world to get to America.

When considering environmental issues it's important to think about ALL the resources going into a product.

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# **Exhibit 2**

# AMERICAN PLASTIC MANUFACTURING

Makers of Custom Printed Plastic Bags

526 South Monroe Street | Seattle, WA 98108 | 1-888-763-1055 | 206-763-1055 | americanplasticmfg.com

## American Plastic is Going Green - Biodegradable bags now available!

Environmental issues are important to everyone. We are doing our part by offering 100% Biodegradable bags, printed with our custom "This Bag is Biodegradable" logo.

Using an additive from ECM Biofilms ([ecmbiofilms.com](http://ecmbiofilms.com)), our biodegradable bags break down completely when in contact with other decomposing materials; in compost bins, landfills, or just buried in the ground. These bags can also be **recycled** along with regular plastic bags. Unlike starch based **compostable** bags, these bags won't degrade in the presence of oxygen, heat, or sunlight, so they can also be **reused** until no longer serviceable. Any bag we make can be produced as biodegradable.

### RECYCLED and RECYCLABLE



100% RECYCLABLE

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### More Information

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**Biodegradable bags** will break down completely when in contact with decomposing organic waste - even in a landfill where practically nothing degrades. They can also be recycled along with other plastic bags.

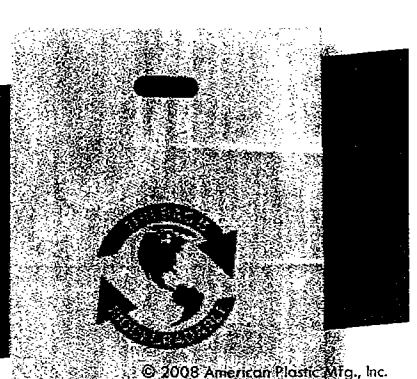
## All of our most popular bag styles are available in biodegradable plastic!

T-SHIRT BAGS

FOLD-OVER DIE CUT

SOFT LOOP HANDLE

DIE CUT HANDLE



### BIODEGRADABLE LOGO OPTIONS

American Plastic has created a custom biodegradable logo for use on our biodegradable bags. Choose the one that works best for your clients.

The "100% Biodegradable and Recyclable" logo provides information about how end users can dispose of the bags.



100% Biodegradable and Recyclable

### Environmental Impact

#### What about paper bags?

When comparing plastic and paper, plastic always wins. Here are a few facts.

- Paper bags require 4-5 times more energy to produce, transport and recycle, than plastic.
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