



# Biodegradable

**NOVUS® Select air cushion material**  
 Environmentally Friendly Packaging from FP International

## Biodegradable NOVUS Select air cushion options give you unparalleled versatility to protect the products you ship.

Biodegradable NOVUS® Select air cushion material is ISO 9001 certified, which meets the ever-growing customer demand for the highest level of quality in packing material. Biodegradable NOVUS Select air cushions are made from 100% recyclable material and can be recycled and reused. If not recycled, Biodegradable NOVUS Select air cushions will biodegrade within 9 to 60 months in the presence of microorganisms, whether they are sent to a landfill or end up as litter in the soil.

This material is designed with FP International's patented, innovative air transfer technology that allows air movement (transfer) within cushions during shipment. This movement acts as a shock absorber to provide continuous protection. Air bags without air transfer technology can transmit shock and damage products during shipment.

### Use Biodegradable NOVUS Select Supertube air cushions to:



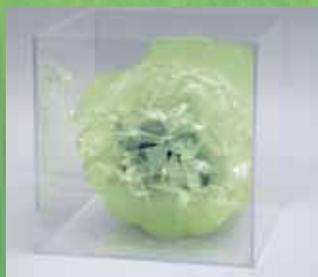
Line the bottom of cartons and protect package corners.



Line the entire carton in an "air transfer" protective cocoon.



Provide excellent blocking and bracing, and fill small voids in the sides of cartons.



Completely surround item; this is a great material for wrapping protection.

Biodegradable NOVUS Select Double Cushion™ air cushions are an excellent economical packing material to block and brace or top-fill, when that's all the protection you need.

### Use Biodegradable NOVUS Select Double Cushion air cushions to:



Economically block and brace items in carton.



Top-fill carton. Fast, easy and as cost-effective as loosefill.

### Use Biodegradable NOVUS Select Quilt-Air Large cushions to:



Interleave to protect your valuable plates and tableware.



Line boxes, fill voids and surround products for economical product protection.

### Biodegradable NOVUS Select air cushions

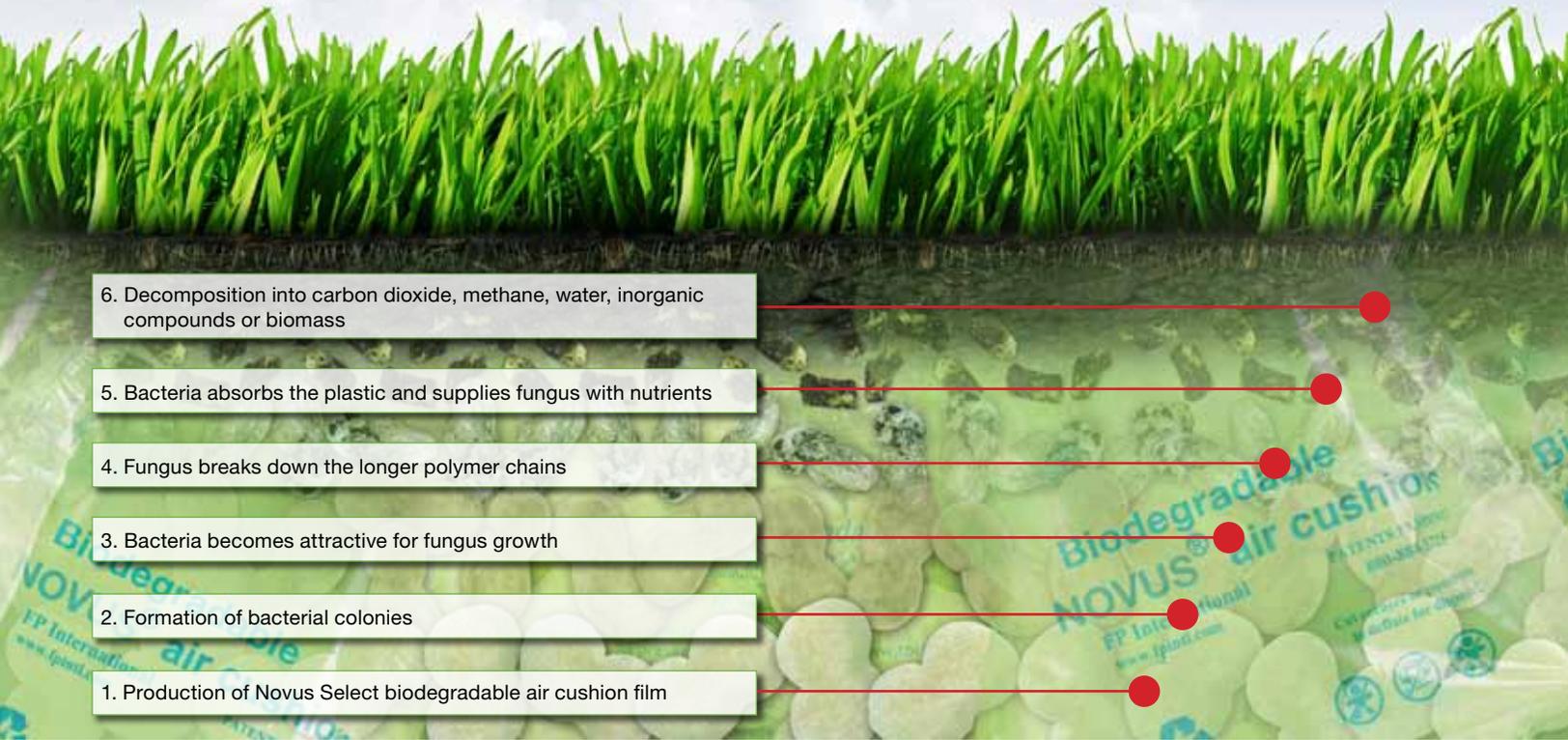
- Better for the Environment
- Better for Your Business
- Better for Your Customers

EN 13427 COMPLIANT



**GREEN FAMILY**  
 Environmentally Friendly Product

# NATURAL BIODEGRADATION OF BIODEGRADABLE NOVUS SELECT AIR CUSHION MATERIAL



6. Decomposition into carbon dioxide, methane, water, inorganic compounds or biomass

5. Bacteria absorbs the plastic and supplies fungus with nutrients

4. Fungus breaks down the longer polymer chains

3. Bacteria becomes attractive for fungus growth

2. Formation of bacterial colonies

1. Production of Novus Select biodegradable air cushion film

This FP Biodegradable additive does not affect the performance or the shelf life of our product, because biodegradation only occurs in the presence of microorganisms which are present in landfills, home and commercial composting, and other areas where they exist in nature. The products will biodegrade in aerobic (with air) and anaerobic (without air) conditions.

## How do we know the product will biodegrade?

Numerous plastic samples that use the additive have been tested by independent laboratories, in accordance with standard test methods approved by ASTM and other standardization bodies, to determine the rate and extent of biodegradation of plastic materials.

The test methods include:

- ASTM D5511 - Anaerobic Biodegradability (Simulates landfill).
- ASTM D5338 - Aerobic Biodegradation Under Controlled Composting Conditions.
- ASTM 5209 - Aerobic Biodegradation in the Presence of Municipal Sewage Sludge.

The results of these tests concluded that plastic products manufactured with this additive are biodegradable. Furthermore, our own testing supports these conclusions.

## Environmental Commitment

FP International has a substantial record of environmental achievements. In 1990, FP International was the first company to recycle post-consumer, polystyrene foam packaging and use the recycled material to make new loosefill from 100% recycled material. FP International received national recognition with the Administrator's Award from the US Environmental Protection Agency, and also received numerous state and local awards for environmental commitment and recycling programs. In 2009, the company recycled in excess of six million pounds of expanded polystyrene worldwide.



**INVENTING THE FUTURE OF PACKAGING**

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