



Biodegradable Technology

# Environmental Protection

Plastics in their current form have existed for less than a century and are used in our daily lives from clothing, retailing, cooking, engineering, packaging, etc. One of the main reasons for the wide usage of plastics is its durability. In 2015 only 9% of the 6.3 billion tonnes of plastic generated waste was recycled. 12% was incinerated, with 79% accumulated to landfill or the natural environment. (BBC – Science Magazine).



In its produced form, plastics will take centuries to biodegrade. Mega Fortris has assessed various forms of technologies in the form of additives that can enhance the biodegradability of our products. Working with or Technology partners we have an additive that is:

- Simple to use and does not affect processing conditions of our products
- Not affecting the properties of the products as compared to its untreated form
- Food safe in accordance to FDA requirements
- Recyclable to the same extent as its untreated form
- Not degradable after manufacture and not requiring special storage after the products arrive at your storage sites
- Biodegradable only when the product is in an environment of high microbial activities, especially in landfill and composting sites.

The biodegradability of the treated products has been independently verified by approved independent laboratories in The United States, using testing methods ASTM D 5511 and ASTM D 5526. From the testings conducted, the treated products, depending on the form and type of plastic will biodegrade in 1 to 5 years as compared to centuries for untreated products. On our own, Mega Fortris have also tested and verified the properties of the products in comparison with untreated products and found that the addition of the biodegradable additives do not affect the physical and marking properties.

## Standards and Certifications

In addition, our technology provider has confirmed that the treated products comply with:

- ISO 14021:1999 on “Environmental Labels and Declarations” under the definition of “Biodegradable”
- ASTM D 5511, ISO DIS 15985, ASTM D 5526 and ASTM D 5338 on biodegradability
- FDA’s testing specifications 21 CFR 177.1630 and 21 CFR 177.1520 on food safety
- US EPA Method 8015 on being completely broken down, and
- EU Directive 94/62/EC Directive on “Packaging and Packaging Waste” and with plastic directives “Directive 89/109/EEC” and “Directive 2002/72/EC”

Please contact us for further information and our latest initiative on your contribution to environment protection.



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