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PDQ-H used in king bio bbs is

A non-starch based additive. This additive uses photo (UV) and oxidative methods to reduce the molecular weight of the plastic. After the molecular weight is reduced to a certain level, the biological process begins. The end product manufactured with this additive will be clear. This additive when used with PP and PE, has been tested and found to be acceptable for food contact applications.

This product is a Masterbatch additive to be used with your PE or PP. UV-H has many of the above capabilities, but utilize ultra violet rays for degradation.

This additive is not made with cornstarch. They are made with proprietary ingredients to disintegrate plastic by oxo-bio degradation oxidation and photodegradation

Toxicity Test

Ceriodaphnia dubia 7-day chronic bio assay Test

Pimephales promelgas 7-day Chronic Bio Assay Test

Fathead Minnow Acute Bio Assay Test

Degradation Test Standards

ASTM D3826-98

ASTM D5510-94

ASTM D5208-01

Biodegradation Test

OECD301B CO2 Evolution Test Ready Biodegradability Test

Loss Of Molecular Weight Test - Report 3801.

Degradation Process

The first stage of degradation results in the film being reduced to a fine powder. This powder is totally inert and physiologically harmless to man, animals, and to plant life. The ongoing and irreversible break-down process follows a path of continuous shortening of the molecular long-chain structure of the polymeric material. Having started with a

molecular weight of several hundred thousand the downward path continues until the polymer is ultimately returned to the natural carbon cycle as simple
compounds such as water and carbon dioxide.

- • Photodegration
- • Thermooxidation
- • Hydrolysis
- • Microbiological attach

(Degradable Polymers, Principles & Applications, edited by Gerald Scott & Dan Gilead, Chapman & Hall 1995)

Food Contact Applications

The active ingredients in PDQ-H are listed in Section B of EC Directive 2002/72/EC permitting its use in Dry food contact applications. PDQ-H has also been tested and found to comply with EC Directive 2002/72/EC for overall migration with data obtained being within the limit. These results permit the use of PDQ-H films in food contact applications. The ingredients in PDQ-H are listed in the "Code of Federal Regulations CFR 21" as safe for various food contact applications.

Heavy Metals

WRP’s degradable additives contains no heavy metals

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