OXOBIOPLAST INC.
Suite1100
120 Eglinton Ave E
Toronto ON M4P 1E2
Tel: 416-322-2937 Fax: 416-322-5075
www.oxobioplast.com

WELLS PLASTICS LIMITED

reverte™ "TO NATURE"

TECHNICAL DATA SHEET BD 93253

Masterbatch type	**BIODEGRADABLE**
Polymer Carrier	**UNIVERSAL**
Additives	**Metal ion prodegradant/cellulose based microparticulate**
Nominal Density	**0.96 g/cm^3**
Issued	**11/08/06**
Approved by	ABarclay

General Comments

Reverte BD 93253 is a universal carrier based oxo-biodegradable masterbatch developed primarily for use in black pigmented polyolefin polymers.

Black pigmentation can inhibit the initial prodegradant effect in oxo-biodegradable systems, so BD 93253 has been formulated to overcome this effect. BD 93253 is also recommended for thick section products where a rapid rate of degradation is required.

The carrier has been chosen to give excellent compatibility with many polyolefinic polymers and exhibits excellent high temperature stability. It is particularly suitable for polyethylene and polypropylene products

The product is suitable for direct food contact applications but the customer should take care that his black pigmentation is equally suitable.

BD 93253 utilises a naturally sourced cellulosic additive which, due to its low particle size and high specific surface area, imparts a biodegradable characteristic whilst retaining a high level of transparency and a minimal effect on physical properties compared with the use of alternative products. In addition it contains a metal ion prodegradant system, formulated to offer a high level of controlled degradation in the finished product following a period of photoexposure.

These active ingredients impart a high level of photo and thermodegradability to the finished article but incorporate a unique control system that gives a readily predictable dwell time before the degradation reaction commences.

The total additive package enhances the breakdown of polymer substrates, leaving a reticulate structure which is then subsequently broken down through microbial attack.

Addition rates are dependent on the precise biodegradable properties required within each particular application. However, addition rates of between 1 and 3% may be necessary to give the required performance.

The product should be premixed with the polymer feedstock or metered in at the feed hopper. Processing conditions should generally be kept the same as those used for the unmodified polymer feedstock.

The Wells Plastics Technical Team is available to advise on specific usages and requirements and can be contacted on the following numbers:

Tel: +44 (0)1785 817421 Fax: +44 (0)1785 817771

e-mail: technical@wellsplastics.com