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TECHNICAL DATA SHEET

BD 93172

Masterbatch type	OXO-BIODEGRADABLE
Polymer Carrier	POLYESTER
Additives	Prodegradant package
Other Components	Reaction rate modifier
Nominal Density	1.37g/cm³
Issued	02/04/07
Approved by	<i>Asarday</i>

General Comments

BD 93172 is a polyester based masterbatch developed primarily for use in indirect food packaging applications.

It utilises a unique oxo-biodegradable prodegradant system, formulated to offer a high level of controlled thermodegradation in the finished product following an initial period of photo-exposure.

The 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 breakdown reaction commences.

Once the PET article has microfragmented through the action of the Reverte product, it is more readily hydrolysed and biodigested by natural organisms.

Addition rates are dependent on the precise properties required within each particular application. However, for example, under typical Northern European conditions, an addition rate of 1% should give a dwell time of approximately 6 to 12 months followed by subsequent microfragmentation within a 12 to 24 month timescale.

The precise breakdown kinetics are dependent on the ambient storage conditions of the finished product. Higher or lower temperatures and UV exposures can enhance or diminish the breakdown profile. Therefore it is recommended that testing is carried out to ensure that the required kinetics have been obtained.

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

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