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Technical Data Sheet BD 93835

Masterbatch type	OXO-BIODEGRADABLE
Polymer suitability	POLYETHYLENE
Nominal Density	0.92g/cm ³
Issued	11/03/08
Approved by	<i>Asarclay</i>

General Comments

BD 93835 is an oxo-biodegradation masterbatch developed for use in LDPE production processes that require resistance to an adverse heat history.

It utilises a unique metal ion prodegradant system, formulated to offer a high level of controlled degradation in the finished product following a short period of photoexposure.

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

Once the initial degradation has sufficiently reduced the polymer molecular weight then the final product will be subject to biodegradation by any appropriate micro-organisms that are present.

The product has been formulated to withstand the higher heat histories that are associated with high temperature production processes and to have a minimal adverse affect on transparency.

The product has been designed for an addition rate of 1% by weight to the polymer feedstock.

The precise degradation kinetics are dependent on the ambient storage conditions of the finished product and the level of applied heat during the production procedure(s). Higher or lower temperatures and UV exposures can enhance or diminish the degradation profile. Therefore it is recommended that testing is carried out to ensure that the required degradation cycle has 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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