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PRODUCTION SPECIFICATION BD 92771

| | |
|------------------|---------------------------------------|
| Masterbatch type | DEGRADABLE |
| Polymer Carrier | POLYETHYLENE |
| Additives | Metal ion prodegradant package |
| Other Components | Reaction rate modifier |
| Nominal Density | 0.91g/cm³ |
| Issued | 18/07/05 |
| Approved by | <i>Asarday</i> |

General Comments

BD 92771 is a polyethylene based masterbatch developed primarily for use in retail carrier bags, although it has subsequently found applications in a broad range of polyethylene based products.

It utilises a unique metal ion prodegradant system, formulated to offer a high level of controlled degradation in the finished product following a 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 readily predictable dwell time before the degradation reaction commences.

Addition rates are dependent on the precise degradable 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 months followed by a rapid microfragmentation timescale.

The precise degradation kinetics are dependent on the ambient storage conditions of the finished product. 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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