High Performance Antioxidant Systems for Recycled Feedstocks

WELLS
Performance Materials

Helping you make your innovations a reality

Wells Performance Materials has been at the forefront of additive masterbatch development and production for over 40 years and has recently formulated a range of high-performance antioxidant masterbatches. These products are specifically focused on improving the thermal stability of polyolefin compounds manufactured utilising recycled feed stocks and compliments a growing range of sustainability solution masterbatches.

Wells Performance Materials recognised, that in line with both the UK Plastics Strategy and the European Plastics Strategy, the need for greater recyclability of standard polymers and for those materials to be re-used into evermore demanding applications. It was essential that high performance antioxidant systems like these were developed to allow formulators, processors, product designers and material specifiers to be able to demand higher physical performances from their recycled feedstocks.

Wells Performance Materials
Providing Solutions...Adding Value

Whilst in many cases our standard products AO91857 (PP) and AO91025 (PE) will be suitable for most applications, there is an ever increasing use of recycled materials in demanding applications and as such there is a need for higher performance stabilisation packages.

The graphs on the right demonstrate the improved thermal stability of the recycled feedstocks by the inclusion of the new high performance antioxidant systems, AO95736 (PP) and AO95743 (PE).

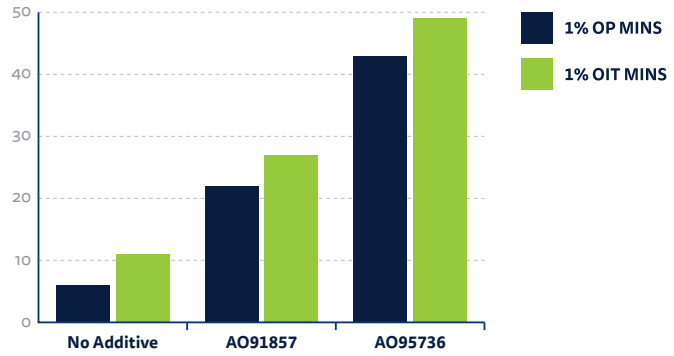
Extensive testing confirms excellent thermal stability properties can be achieved with recycled feedstock and the results are comparable with that of virgin materials when using the new high performance antioxidant products.

It is Wells Performance Materials goal and strategy to continue to develop tailor made solutions and technically advanced additive masterbatches and compounds for the polymer industry.

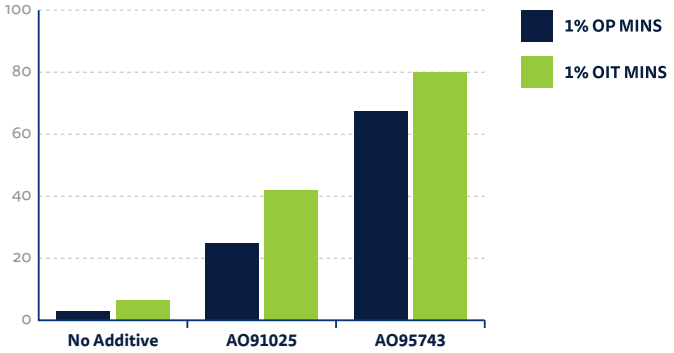
Providing Solutions and Adding value to customers through innovation and technical excellence.

Wells Performance Materials facility is ISO 9001 (2015) and ISO 14001 (2015) accredited.

OIT @200C rHPP



OIT @200C rLDPE



Wells Performance Materials new antioxidant systems allows a wider range of recycled feedstocks to be utilised with similar thermal stability properties which could normally be expected for virgin polymers in both PP and PE applications.

In addition to thermal stability capabilities these systems also contain process stabilisers to ensure that not only is a long service life achieved for the finished article but the material is protected from thermal damage during the processing stages as well.

ISO 9001
Certificate No. GB2005462

ISO 14001
Certificate No. EM2000992

Wells Performance Materials Ltd
Emerald way, Stone Business Park,
Stone, Staffordshire, ST15 0SR, United Kingdom
Tel: +44 1785 817 421
Email: sales@wellspm.com

www.wellspm.com