

FLAME RETARDANTS

- Flame Retardant masterbatches tailored to precise applications
- Non-halogenated grades available
- Specific products for the film & fibre industries
- Flame retardant / UV Stabilised systems available

Wells Plastics providing solutions...adding value

E-mail: sales@wellsplastics.com

Tel: +44 1785 817 421

Fax: +44 1785 816 357

Wells Plastics Ltd
Emerald Way,
Stone Business Park
Stone, Staffordshire
ST15 0SR
United Kingdom



Background

As many plastics are inherently flammable, measures must be taken to increase their safety in applications where there is the risk of fire. Often the most cost effective method of doing this is to add a flame retardant additive during processing.

Careful choice of the flame retardant for a particular polymer and application is important. Additives must be chosen to function properly in the polymer they need to protect. Other properties of the flame retardant must also be considered: the additive should be compatible with the polymer, it should not adversely affect physical properties and ideally be effective at low addition rates. Additionally, in certain applications, it is desirable that the additive is colourless and does not affect UV stability.

In addition to these properties the additive should have low toxicity, low smoke emission and minimise toxic breakdown products in a fire situation.

Wells Plastics

Wells Plastics has been at the forefront of flame retardant masterbatch manufacture for many years. As well as conventional products such as polyhalogenated organics with synergists such as antimony trioxide, Wells has developed a range of inorganic and organic non-halogenated grades.

Wells' experience in this area enables us to work with our clients to establish the optimum grades for their applications.

New Developments

Wells Plastics has developed a range of products based upon a polyhalogenated phosphate flame retardant additive package. These products are particularly suited for use in film and fibre applications as they require no additional synergists such as antimony trioxide.

These novel formulations offer excellent flame retardant properties at relatively low addition levels. They show excellent UV/light stability together with high heat resistance, having an upper processing temperature of 270°C. In addition they have low toxicity and low environmental impact, the additive passing the stringent German Dioxin Ordinance.

This information is correct to the best of our knowledge, but we would recommend that users make their own assessment to confirm that the material meets their requirements. We accept no liability for any damage, loss or injury resulting from the use of this information. Freedom from patent rights must not be assumed.