Budenheim

Halogen-free flame retardants for PA/PBT

The market for computer, consumer and communication electronics is steadily growing based on constant innovation.

Engineering plastics like polyamides find major use in electrical and electronic applications, but their flammability can be hazardous to consumers. Electronics manufacturers face increasing regulatory requirements for eco-friendly materials and processes, therefore opting for halogen-free flame retardants in polymers.

Components within the BUDIT® 3 Series and systems within the BUDIT® 6 Series offer the following benefits for use in engineering plastics:

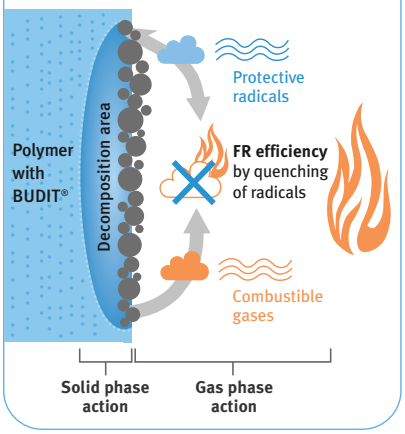
- Halogen-free with an excellent eco-toxicological profile
- Efficient loadings have minor influence on mechanical and electrical properties
- Low leaching avoids unwanted migration to the surface during processing as well as under extreme weathering conditions

Budenheim is specialized and experienced in the production of halogen-free flame retardants for a wide range of applications in polymers. Challenge us.

Flame retardants have became more sustainable

Flame retardants are essential in plastics and there is an increasing need for more environmentally compatible products. The BUDIT® Series of halogen-free flame retardants for engineering plastics include melamine cyanurates, melamine phosphates and melamine polyphosphates with different reactions to fire.

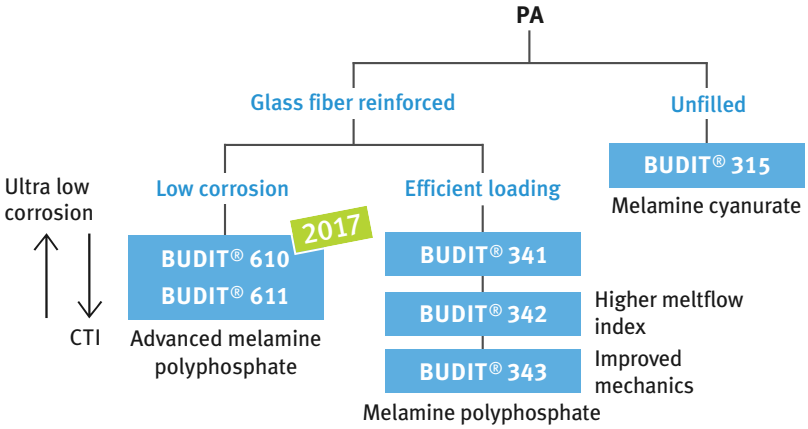
Action in the gas phase



Whatever you want: BUDIT®

The BUDIT® Series covers almost all requirements within polyamide applications from gas phase activities to charring based on melamine polyphosphates to melamine cyanurates.

Product recommendation



A toolbox for engineering plastics

Starting formulations

The typical applications are benefit from the highly chemically engineered products and meeting the relevant standards: UL 94 V-0 at 0.8 mm, glow wire ignition temperature GWIT (IEC/EN 60695-2-13):

Performance	Loading
Low corrosion, high CTI, GWIT 825	23% BUDIT® 610 + phosphinate
Ultra low corrosion, GWIT 825	23% BUDIT® 611 + phosphinate
Standard with limited corrosion, GWIT 750	12% BUDIT® 341/342/343 +12% phosphinate
Standard, GWIT 750	7% BUDIT® 341/342/343 +14% phosphinate

2017 Development product, commercially available in 2017

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