

Paxymer®: The green flame retardant system

Paxymer® is a system in the absolute forefront when it comes to thinking about flame retardancy. Our commitment goes beyond profit, which is reflected in our mission;

Paxymer® protects people and environment and is perceived as the number one green flame retardant system in the world.

The Paxymer® system is designed with the particular problems of fire in mind:

- Most fatalities in connection with fire is due to toxic smoke.
Paxymer® has very low smoke emission
- Dripping substances ignite materials and spread the fire.
Paxymer® does not drip
- Soot is highly costly to decontaminate.
Paxymer® does not soot

The Paxymer® system has excellent processing characteristics and does not effect health or environment negatively:

- Paxymer® preserves the mechanical properties of the base polymer.
- Paxymer® has lower density and better chemical and hydrolytic resistance than mineral and other halogen-free systems.
- Paxymer® is a proud participant of the "UNEP POPs-free Products" project and uses no classified, persistent, carcinogenic or hormone disrupting substances according to the Stockholm convention - there are no handling, shipping or recycling restrictions.

How does Paxymer® achieve these properties?

The Paxymer® system's efficiency is achieved through combining several mechanisms:

- **High flame retardance:** It slows down the rate of degradation of polymer material, decreases heat release rates, increases the char formation substantially, and thereby makes it a better solution than competitive technologies.

- **Non-dripping and low smoke:** Paxymer® forms crosslinks on burning (>450°C) and therefore does not drip. Compared to other FR-systems, it significantly eliminates smoke generation.
- **Preserves polymer properties:** Paxymer® preserves and retains polymer properties. The system design also facilitates extrusion, blow molding and injection molding of plastics without any deposition on equipment parts.

A new generation of flame retardants designed for your benefit

The Paxymer® system represents a new generation of flame retardants with a whole new set of properties. It combines the functional, environmental and safety aspects into one holistic system.

- Paxymer® performs well with other additives (UV-stab, impact modifiers etc.) and even makes it possible to switch certain grades of engineering plastics to polyolefins due to mechanical and thereby reduces cost.
- Paxymer® is fully recyclable, reduces scrap and requires no special waste handling. It has excellent processing properties. This lowers your cost for material handling.
- Paxymer® increases the safety of your employees by minimizing powder handling and eliminating toxic substances from the material flow.

Paxymer® creates value by giving you the possibility to offer your clients a product that is flame retarded while meeting high mechanical demands.

Currently available qualities

The Paxymer® system is currently developed for polyolefins. Depending on your specific demands there are different Paxymer® qualities.

Extrusion, injection molding and blow molding grades are available.

Paxymer® is delivered as a granular master batch.

For more information regarding your specific requirements:

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