pinfa

Why do we need Flame Retardants?

Flame Retardants are used to ensure the fire safety of many common products whilst meeting many other material requirements.

Choice of MATERIALS for developing products depends on multiple factors

- Mechanical, electrical performance
- Environmental footprint
- Comfort, design
- Cost
- Recyclability
- Safety standards

Flammable material

Electricity

Open flames

→ **Fire Risk** →

Flammability performance → **Fire safety standards** ← **Addition of Flame Retardants**

Megatrends reinforce the importance of fire safety:

- Increasing electrification
- More electric & electronic devices
- Use of flammable materials
- Growing population density
- etc.

Common plastics, some textiles and other materials are very flammable, however, they offer advantages and are indispensable for many modern products.

Flame Retardants are one important element of the fire safety "toolbox", and they can ensure the necessary fire safety of many materials.

They are meant to prevent the fire from starting, not to extinguish a fire.