

## BX FR OP1230

### Halogen-free flame retardants used in PBT、PA6、PA66

#### Product Description

BX FR OP1230 is a halogen-free flame retardant based on organic phosphinates, white powder, called Aluminum Diethyl Phosphinate. The product is not hygroscopic and is insoluble in water and common organic solvents like acetone, dichloromethane, MEK, toluene and so on.

#### Benefits

- Non-hygroscopic, not hydrolyzed and not precipitated
- Suited as flame retardant for thermoplastics and thermosets
- High efficiency due to its high phosphorus content
- UL 94 V-0 rating down to 0.4 mm thickness
- Suited for processing temperatures up to 350 °C
- Suitable for both glass fiber reinforced and unreinforced grades
- The flame retardant polyamide compounds exhibit very good physical and excellent electrical properties
- Suitable for lead free soldering
- Good colorability

Non-halogenated flame retardant with favorable environmental and health profile

#### Specification and Technical Data

Characteristics	Unit	Target Value	Test Method
Phosphorus	%(w/w)	23.0 - 24.0	
Water / Moisture	%(w/w)	max. 0.5	Thermogravimetry
Density	g/cm <sup>3</sup>	approx. 1.35	at 20 °C
Bulk Density	kg/m <sup>3</sup>	approx. 400 - 600	
Decomposition Temperature	°C	> 350	TGA 1 % weight loss
Average Particle Size (D50)	µm	20 - 40	

#### Applications

BX FR OP1230 can even be applied in high temperature polyamides because of its high temperature stability. It is suitable for both glass fibre reinforced and unreinforced grades. The flame retardant polyamide compounds exhibit very good physical and electrical properties.

#### Processing

---

---

Before incorporating BX FR OP1230, it is important to predry the polymer as usual. Predrying of BX FR OP1230 is not necessary. However, predrying (e. g. 4h at 120 °C) is recommended, if even very low moisture contents must be avoided.

The mixing and processing methods customary in powder processing of polymers can be used with BX FR OP1230.

The optimum conditions for incorporating should be determined in each individual case. Care must be taken to ensure homogeneous dispersion of all components. The temperature of the polymer melt should not exceed 350 °C.

**Packaging**

25 kg /bag, using paper bags with PE inner. The product should be stored in a dry place at room temperature.

---