

Corrosion resistant,low precipitation halogen-free flame retardant for nylon

BX FR OP1400

Product Description

BX FR OP1400 is a halogen-free flame retardant based on organic phosphinates,white powder,good fluidity. The product can be recycled.

Benefits

- The color of the product is stable without graying
- No contact metal corrosion and a small amount of precipitation under high temp.and high humidity environment
- Design flexibility: the mechanical properties are greatly improved to meet toughness requirements of complex parts, compared with the P&N system
- Wider processing window
- Less gas and mold scale
- Lower corrosion of equipment

Specification and Technical Data

Characteristics	Unit	Target Value	Test Method
Phosphorus	%(w/w)	24.5-25.5	
Density	g/cm ³	0.4-0.7	at 20°C
Particle Size Distribution D50	μm	20-50	Laser diffraction in acetone
Water / Moisture	%(By wt.)	max. 0.5	Thermogravimetry
Decomposition Temperature	°C	≥ 350	(DTA/TG)

Applications

- PA66-25GF@UL94V0: 0.4mm: 20/22%; 0.8mm: 18-20%; 1.6mm: 16-18%
- PA6-30GF@UL94V0: 0.8mm: 20/22%; 1.6mm: 18-20%; 3.2mm: 16-18%

Attention:

- The resin must keep a low moisture content
- When using twin-screw granulation, the screw combinatuon with weak shear should be used, combined with low processing temperature and high vacuum
- Nylon toughening agent, polyolefin, EBS and other components will seriously affect the flame retardant effect
- Carbon black can affect CTI, so it is recommended to use organic black in combination of alone

Packaging

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