

BX FR OP1020

Halogen-free flame retardants used in PBT

Product Features

BX FR OP1020 is a halogen-free flame retardant based on organic phosphinates. The polymer with BX FR OP1020 will expand and crosslink when burning and form a stable carbon layer at the surface. The protective layer provides a heat insulation effect, reduces oxygen access and prevents the further spread of flame, plays a role in fire retardant. The flame retardant is not hydrolyzed, not precipitated, has good self-extinguishing properties into carbon

Specification and Technical Data

Characteristics	Unit	Target Value	DS ¹⁾ TD ²⁾	Test Method
Phosphorus	%(w/w)	20-21	<input checked="" type="checkbox"/> <input type="checkbox"/>)	
Water / Moisture	%(w/w)	max. 0.3	<input checked="" type="checkbox"/> <input type="checkbox"/>	Thermogravimetry; (11/03)
Density	g/cm ³	Appr. 1.6	<input type="checkbox"/> <input checked="" type="checkbox"/>	at 20 °C
Bulk Density	kg/m ³	Appr. 500	<input type="checkbox"/> <input checked="" type="checkbox"/>	
Decomposition Temperature	°C	> 320	<input type="checkbox"/> <input checked="" type="checkbox"/>	TGA 1 % weight loss
Average Particle Size (D50)	µm	≤ 10	<input type="checkbox"/> <input checked="" type="checkbox"/>	

Applications

BX FR OP1020 is white particles, developed especially for PBT. It is suitable for both glass fiber reinforced PBT and non-reinforced PBT. The flame retardant PBT exhibits excellent physical and electrical properties.

Formulation

In glass fiber reinforced PBT, NP1020 is usually sufficient to achieve the UL94 V-0 flame retardant requirements (at 1.6 mm thickness). Due to different formulations and processing conditions, the dosage of flame retardant may be different

Package:

20 kg /bag, using paper bags with PE inner.
