



Plastic & polymer additives and solution supplier
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Technical Data Sheet

ProFlame® PN2274

Product Name: Piperazine Pyrophosphate(PAPP)

Grade: ProFlame® PN2274

Chemical Structure:C4H10N2.H4O7P2

CAS No. : 66034-17-1

PN2274 is a new polymeric IFR, prepared by copolymerization of piperazine and phosphoric acid. PN2274, containing the three indispensable components of IFR in the molecular structure simultaneously, owns high initial decomposition temperature and superior charring ability.

Benefits

- Compared with bromine-antimony flame retardant, the product density is lower and the comprehensive cost of formula is lower
- Compared with traditional ammonium polyphosphate flame retardant, it has excellent precipitation resistance and better hydrolysis resistance
- High thermal decomposition temperature , excellent heat aging resistance and excellent UV stability
- Low smoke density , low smoke gas corrosivity, good recyclability

Technical Data

Items	Spec
Appearance	White powder
P content, %	≥23.4
N content,%	≥10.4
1% TGA Temperature, °C	≥280
D50 particle size, um	5.0~10.0
Moisture,%	≤0.3
Whiteness	≥95

Application:

PN2274 is characterised by high carbon formation efficiency, good thermal stability, low smoke and non-toxicity, light aging resistance and low moisture absorption. It can be used alone as an intumescent flame retardant, but it is more often used in combination with other flame retardants. It can be used with different phosphorus and nitrogen series flame retardants, and can be applied to PP, PE, PA, ABS, TPE, TPU, PU, Epoxy Resin, EPDM, EVA and other materials by adding synergistic agent, so as to play a highly efficient flame retardant role.

Package & Storage:

Net weight 25KG Composite paper bag with PE lined bag.

Minimum shelf life is 12 months stored in a dry and ventilated warehouse.

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