



Plastic & polymer additives and solution supplier  
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# Technical Data Sheet

## ProFlame® PN549

### Halogen-free flame retardant for PCB and electronic products

ProFlame-PN549 is a formulated eco-friendly halogen-free flame retardant mainly based on phosphorus and nitrogen. It's an intumescent flame retardant in white powder form. With special surface coating treatment, PN549 has good compatibility with the substrate, little influence to the physical properties of the final product, excellent flame-retarding performance, and in compliance with EU RoHS regulation.

#### Advantages:

1. Achieving FR performance by both gas phase and solid phase mechanism
2. good colorability
3. no hydration, no blooming
4. good processability
5. good physical and electrical properties
6. low smoke, no-toxic
7. halogen-free, no harm to the environment and human body

#### Technical Data:

Items	Spec
Appearance	White free-flowing powder
P content, %	22-25
Decomposition Temperature, °C (TGA 1%)	≥350
Moisture,%	≤0.5
Average particle size (um, D97)	≤10
Specific gravity, g/cm <sup>3</sup>	1.35

#### Usage:

PN549 can either be used separately or together with other halogen-free flame retardants or inorganic fillers. PN549 is mainly used in electronic adhesives, Epoxy potting sealants, Epoxy CCL and FPC.

#### Package:

PN549 is delivered in paper-plastic compound bag, net weight 15 or 20±0.1kg per bag.

#### Storage and transportation:

Store in a dry and ventilated warehouse. Minimum shelf life is 12 months under proper stored condition.

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