



Plastic & polymer additives and solution supplier
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Technical Data Sheet

ProFlame® PN39

PN39 is based on an organic phosphinate. The product is not hygroscopic and it is insoluble in water and common organic solvents like acetone, dichloromethane, MEK, toluene. PN39 can easily be dispersed in solvents like acetone or MEK.

Appearance type 1: Mixed white particles and powders without carrier

Mainly suitable for customers with weight-loss-scale or short mixing time with the base material.

Appearance type 2: White powder

Mainly suitable for feeding together with main raw materials after high-speed mixing

Technical Data:

Items	Spec
Appearance	White free-flowing powder or white granule
P content, %	23-24
Decomposition Temperature, °C (TGA 1%)	≥350
Moisture, %	≤0.5
Average particle size um, D50	≤10
um, D97	≤20
Specific gravity, g/cm ³	1.35

Usage :

PN39 is a halogen-free flame retardant with a high phosphorus content which is suitable for use in both the thermoplastic and thermoset applications where the most stringent fire retardancy standards must be met. One application is epoxy based laminates for printed circuit boards. Halogen-free FR-4 and CEM-3 laminates can be produced by using PN39. It is also widely used for PA6, PA66, PBT, PET as main flame retardant.

Recommended dosage:

It can be readily dispersed in epoxy resin systems when a high shear mixer is used.

UL 94 V-1 with 1.6mm : 10phr in 100phr resin

UL 94 V-0 with 1.6mm : 30phr in 100phr resin or in combination with other flame retardants like ATH

Package & Storage

PN39 is delivered in paper-plastic compound bag, net weight 20±0.1kg per bag.

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

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