



Technical Data Sheet

ProFlame® PN539

Organic phosphorus flame retardant *For Adhesive application*

PN539 is a white, fine-grained powder 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. PN539 can easily be dispersed in solvents like acetone or MEK.

Benefits

- ▶ Based on an organic metal phosphinate
- ▶ Not hygroscopic, insoluble in water and common organic solvents like acetone, dichloromethane, MEK, toluene
- ▶ Good hydrolysis resistance
- ▶ Can easily be dispersed in solvents like acetone or MEK
- ▶ Halogen-free flame retardant with a high phosphorus content which is suitable for use in both thermoplastic and thermoset applications to meet the most stringent fire retardancy standards
- ▶ Suited for thermoplastic elastomers for cable applications
- ▶ Particularly suitable for very thin adhesive applications like flexible printed circuit boards due to its specifically designed particle size distribution; can be readily dispersed in epoxy resin systems when a high shear mixer is used
- ▶ Low smoke toxicity
- ▶ Non-halogenated flame retardant with favorable environmental and health profile

Technical Data:

Items	Spec
Appearance	White free-flowing powder
P content, %	23-25
Decomposition Temperature, °C (TGA 1%)	≥350
Moisture,%	≤0.5
Particle size um, D50	1.7-2.3
um, D97	≤10
Specific gravity, g/cm ³	1.35

Usage:

PN539 is a halogen-free flame retardant with a high phosphorus content which is suitable for use in both thermoplastic and thermoset applications where the most stringent fire retardancy standards must be met. Due to its specifically designed particle size distribution, PN539 is particularly suitable for very thin adhesive applications like flexible printed circuits. It can be readily dispersed in epoxy resin systems when a high shear mixer is used.

Classification: UL 94: class V-1, 1.6 mm
concentration: approx. 10 parts PN539 / 100 parts resin

Classification: UL 94: class V-0, 1.6 mm
concentration: approx. 30 parts PN539 / 100 parts resin
or in combination with modified resins
or other flame retardants like ATH



Plastic & polymer additives and solution supplier
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Package:

PN539 is delivered in paper-plastic compound bag, net weight 15kg 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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