



Plastic & polymer additives and solution supplier
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Technical Data Sheet

ProFlame® PNPO740

PNPO740 is a kind of Halogen-Free flame retardant, which develops its effectiveness through phosphorus/nitrogen synergism.

Benefits

- ▶ Based on ammonium polyphosphate
- ▶ Low smoke density
- ▶ Can be used alone or in combination with synergists like aluminium hydroxide in composites
- ▶ Non-halogenated flame retardant with favorable environmental and health profile

Technical Data:

Items	Spec
Appearance	White free-flowing powder
P content, %	18~20
N content, %	21~23
1% TGA Temperature, °C	≥200
Solubility in Water	≤3
Average particle size, um	D50≤20
Volatile, %	≤0.5

Applications:

◎ PNPO740 may be used in a range of thermoset resins, especially unsaturated polyester resin, acrylic resins, epoxy or phenolics. It is suitable both for coatings and reinforced materials. In addition to primary effects of fire such as spread of flames and residual length, secondary effects such as smoke density and formation of toxic smoke is of interest.

◎ In composites PNPO740 can be used alone or in combination with synergists like aluminium hydroxide.

◎ PNPO740 is very effective in methacrylate-styrene dissolved polyester resins.

◎ In styrenic polyester resins PNPO740 can be combined with aluminium hydroxide to reduce the overall filler content necessary to pass different flammability standards. In these systems, PNPO740 is normally added at 15~25 parts and aluminium hydroxide at 50~150 parts per hundred resin.

Classifications:

UL 94 V-0 (1.6 mm): > 30 phr

DIN 5510 S4 SR2 ST2: > 30 phr

NF 92-501 class M1: > 50 phr

DIN EN 13501-1: > 75 phr

ABD 0031 Airbus Industries requirements for interior parts: Passed with 50 phr



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Package & Storage:

Net weight 25KG Kraft bag with PE liner.

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

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