



Plastic & polymer additives and solution supplier
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Technical Data Sheet

ProFlame[®] PN2131C

Specially for PA6 + Glass fibre

ProFlame-PN2131C is formulated flame retardant based on organic phosphorus component. It is suited for both GF-reinforced and unreinforced PA6 system. The polyamide compounds exhibit very good physical and electrical properties with PN2131C. We specially design columned granule appearance, this will be helpful to reduce dust ,and make material easy to dispersing and feeding.

Technical Data:

Items	Spec
Appearance	White free-flowing powder/columned granule
P (as P ₂ O ₅) content, %	18-21
Decomposition Temperature, °C	≥320
Average particle size, um	D50≤15
PH value	4.5-6.5
Moisture, %	≤0.5
Solubility in water %, 25°C , g/100mL H ₂ O	≤0.5
Whiteness	≥97

Recommended dosage:

Polymer	PA6	UL-94	GWFI
Unreinforced	17-20	V0(0.75-1.6mm)	960°C
20-30%GF-Reinforced	15-18	V0(0.75-1.6mm)	960°C

Processing instruction:

1. Pre-drying the polyamide, the moisture content should be below 0.1 % (by wt.).
2. The optimum conditions for incorporating should be determined in each individual case. Care must be taken to ensure homogeneous dispersion of all components.
3. The temperature of the polymer melt should not exceed 320 °C.
4. It is most suitable for equipment with weak shear force.
5. The processing temperature of Parallel twin-screw extruder should keep between 210 ~ 230 °C with vacuum at the same time. The temperature is too high, the physical property loss of PA6 is large, and the yellowing is also large.
6. Do not use low-alkali or high-alkali fiberglass. High-quality non-alkali fiberglass is preferred.

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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