



Plastic & polymer additives and solution supplier
E:info@novistagroup.com I : www.novistagroup.com

Technical Data Sheet

ProFlame® PN4131C

Specially for PA66 + Glass fibre

ProFlame-PN4131C is formulated flame retardant based on organic phosphorus component. It is suited for both GF-reinforced and unreinforced PA66 system. The polyamide compounds exhibit very good physical and electrical properties with PN4131C. 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	≥350
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	PA66	UL-94	GWFI
Unreinforced	17-20	15-18	V0(0.75-1.6mm)	960°C
20-30%GF-Reinforced	15-18	12-16	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 350 °C.
4. It is most suitable for equipment with weak shear force.
5. The processing temperature of Parallel twin-screw extruder should keep between 240 ~ 260 °C with vacuum at the same time. The temperature is too high, the physical property loss of PA66 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.

+86-536-8206760

info@novistagroup.com

www.novistagroup.com

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Novista Group and its subsidiaries. It is the responsibility of the user to comply with all applicable laws and regulations and to provide for a safe workplace. The user should consider any health or safety hazards or information contained herein only as a guide, and should take those precautions which are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patent.