

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

Technical Data Sheet ProFlame® PN1683

Product Name: Melamine polyphosphate (MPP)

CAS NO.: 218768-84-4

Molecular Formula: HO(C3H7N6PO3)nH

PN1683 flame retardant decomposes endothermically above 350 °C, acting as a heat sink to cool the polymer. The released phosphoric acid further reacts with the polymer to form a char and inhibit the release of free radical gasses into the oxygen phase. Simultaneously, nitrogen species released from the degradation of melamine intumesces the char to further protect the polymer.

PN1683 flame retardant was originally developed to suit the high processing temperatures associated with the compounding of glass fiber reinforced thermoplastics. It is mainly used in thermosetting resins such as glass-fiber reinforced polyamide, TPE, epoxy, phenolic, unsaturated polymers, etc., as well as other applictions by combining with synergists.

Specification:

Appearance	White crystalline powder
Nitrogen content,%	42.0-44.0
Phosphor content,%	12.0-14.0
Moisture,%	≤0.3
PH Value 10g/L	4.0-6.0
Decomposing point, °C	1% ≥355
	5% ≥385
Average grain size, um	D50 ≤3.0
	D98 ≤25

Package & Storage

25kg paper bag with PE inner bag.

Should be stored in dry and ventilated storeroom. This product is non-dangerous. For other operations, please refer to SDS instructions provided by the manufacturer.

www.novistagroup.com info@novistagroup.com +86-536-8206760

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.