

Nonfla-601

Description

DOOBON Nonfla 601 is a non-halogen flame retardant. That is done by a intumescent system, which undergo charring and foaming upon thermal degradation, foaming a blown protective cellular char. Nonfla 601 is considered by a particularly promising environment-friendly approach.

Formular $(C_3H_8N_6)_n(HPO_3)_m$

Chemical Name Melamine-Polyphosphate

Appearance White powder

Specifications

Nitrogen Content	%	40~44
Phosphorus Content	%	13~16
Water Content	%	Max 0.7
Particle Size d(0.5)	μm	4.0 ± 1.0
Bulk Density	g/ml	Approx. 0.5

Application

Nonfla 601 flame retardant provides premium performance in a wide range of applications. It used for Rigid Polyurethane Foam, Epoxy, Nylon, Wood and Paint etc.

Handling

Packaging Paper Bags, PE inner liner, 20 kg net
Storage Cool, Dry and well ventilated area at room temperature

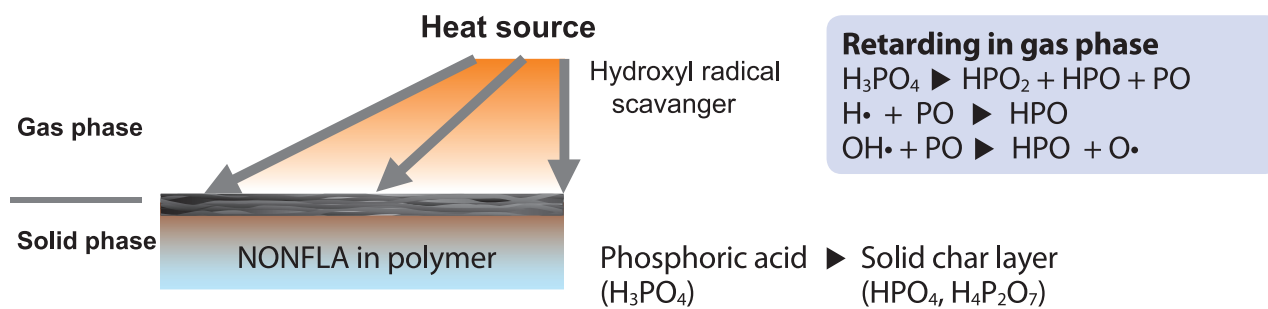
* For additional handling and toxicological information, consult the DOOBON Material Safety Data Sheet.

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What is a Nonfla?

FR mechanism by Phosphorus & Nitrogen flame retardant



Function of intumescent thick char layer

Oxygen,
Heat,
Combustible decomposition products to flame front



Intumescent thick char layer

By Nitrogen source (N_2, NH_3)

Advantage of Nonfla Series

High heat resistance (decompose above 300°C degree)
Low smoke and non toxic gases in fire situation (halogen-free)
Ease of handling (Non hazardous)
Process easily – compounding / molding (good compatibility with polymer)
No effect to material color
Recyclable / Biodegradable

DOOBON INC

59, Hwangtanli-gil, Gangnae-myeon, Heungdeok-gu, Cheongju-si, Chungcheongbuk-do, Republic of KOREA, 28174
TEL : +82-43-235-2307 FAX : +82-43-235-2314 <http://www.doobon.co.kr>