

**GD-APP104 Non-Halogen Intumescent Flame Retardant For Polyolefines (ammonium polyphosphate flame retardant)**

**Specification:**

Appearance	—	White free-flowing powder
Water / Moisture	%(w/w)	≤ 0.5
Nitrogen	%(w/w)	11.5-13.5
Phosphorus	%(w/w)	22.0-24.0
Density	g/cm <sup>3</sup>	approx. 1.8
Bulk Density	g/cm <sup>3</sup>	approx. 0.4
Average Particle Size (D50)	μm	approx. 15
Decomposition Temperature	°C	> 250

**GD-APP104 equivalent to Clariant GmbH's Exolit AP 750.**

**Key properties:**

GD-APP104 is a non-halogenated flame retardant based on GD-APP101, which develops its effectiveness through phosphorus/nitrogen synergism. When incorporated into polyolefine, it shows high processing stability and no migration.

GD-APP104 differs in its mode of action from halogenated flame retardants in the fire. When the polyolefine on exposure to flame, the carbon foam layer formed protects the polymer through its heat insulating effect to reduce further oxygen access and prevent dripping of the polymer. At the same time there are no thrill halogen hydride gases to produce.

**Applications:**

GD-APP104, may be mostly used in a range of thermoplastics,rubber,resin, especially PP, PE, EVA, TPE etc., which is suitable extrusion and injection moulding applications. The flame retardant property reaches UL94 V-0 Level.

**Package:**

25 kg net bag with PE liner or 500 kg, 600kg net big bag or on customer's request.

**Storage and Handling:**

Store in a dry and cool area.

Avoid inhalation, ingestion, and contact with eyes and skin.

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