



Flame retardant

DovaFR PA 312a

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Halogen-free flame retardant for Nylon (PA)

Product Description

DovaFR PA 312a is kind of halogen-free organic phosphorous flame retardant. It is white power with larger particle size, high hydrophobicity, high temperature resistance and non-migration.

Benefits

- DovaFR PA 312a has large particle size.
- Good coloring performance.
- DovaFR PA 312a is contrast in laser marking.
- DovaFR PA 312a has high flame retardant efficiency, small addition amount and good dispersion.
- Good water resistance, no precipitation, migration, moisture resurgence and water slip phenomenon.
- DovaFR PA 312a is non halogen and eco-friendly flame retardant, which is complied with EU ROHS, REACH and other regulation requirements.

Specifications

Characteristics	Unit	Standard Request	Test Method
Appearance		White powder	Visual
Decomposition temperature	°C	340 Min (weight lost 5%)	TGA (10°C/min, in air)
	°C	300 Min (weight lost 1%)	TGA (10°C/min, in air)
Moisture	% (w/w)	0.3 Max	Karl-Fischer titration
P content	% (w/w)	22~24.5	Inductively coupled plasma emission spectrometer
Density	g/cm ³	approx. 1.6	at 20°C
Bulk Density	kg/m ³	approx. 500	
Average Particle Size(D50)	µm	20~40	Laser diffraction

¹) Delivery specification: The product is monitored on a regular basis to ensure that it adheres to the specified values.

²) Technical data: The technical data are used solely to describe the product and are not subject to regular monitoring.

Applications

DovaFR PA 312a is mainly applied in polyamides (PA). It is suited for both glass-fiber-reinforced and unreinforced grades with good mechanical and electrical properties.

Recommended dosage

Product	PA 6 + 30% Glass Fiber	PA 66 + 30% Glass Fiber
DovaFR PA 312a	17~ 19	15-17
UL94	V0(3.2-0.8 mm)	V0(3.2-0.8 mm)

Delivery Form

White powder

Processing

Before processing, nylon should be dried, if possible, the moisture content should be less than 0.1% (by weight). It is not necessary for DovaFR PA 312a. Please make sure that all ingredients are evenly dispersed, and the processing temperature should not exceed 320°C.

Packaging

DovaFR PA 312a is supplied in 25 kg craft paper bag / 1.000 kg shrink-wrapped pallet.

Storage

DovaFR PA 312a is in sealed containers at room temperature in a dry place. Partially emptied containers should be carefully resealed after use.

Minimum shelf life is 24months from the date of shipping when stored according to the said conditions.

Contact Us

Please contact us for safety and regulatory details or the Material Safety Data Sheet (MSDS).