



Flame retardant

DovaFR PBT 314

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Halogen-free flame retardant for PBT

Product Description

DovaFR PBT 314 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. DovaFR PBT 314 is mainly used in engineering plastic such as PA6, PA66(with glass-fiber), especially for electric and electronic products which must have a high flame retardant and high electrical performance.

Benefits

- DovaFR PBT 314 has large particle size.
- DovaFR PBT 314 has high flame retardant efficiency, small addition amount and good dispersion.
- DovaFR PBT 314 can be applied in glass-fiber-reinforced and unreinforced grades.
- Good physical and electrical properties.
- Low density, smoke and toxicity.
- Good water resistance, no precipitation, migration, moisture resurgence and water slip phenomenon.

Specifications

Characteristics	Unit	Standard Request	Test Method
Appearance		White powder	Visual
Decomposition temperature	°C	320 Min (weight lost 1%)	TGA (10°C/min, in air)
Moisture	% (w/w)	0.3 Max	Karl-Fischer titration
Density	g/cm ³	approx. 1.6	at 20°C
Bulk Density	kg/m ³	approx. 500	
P content	% (w/w)	20.5 ~21.5	Inductively coupled plasma emission spectrometer
Average Particle Size(D50)	µm	~10	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 PBT 314 is mainly applied in PBT. It is suited for both glass-fiber-reinforced and unreinforced grades with good mechanical and electrical properties.

Recommended dosage

Product	PBT + 30% Glass Fiber	PBT
DovaFR PBT 314	16-18	19-21
UL94	V0(1.6-0.8 m)	V0(1.6-0.8 m)

Delivery Form

White powder

Packaging

DovaFR PBT 314 is supplied in 25 kg craft paper bag / 1.000 kg shrink-wrapped pallet.

Storage

DovaFR PBT 314 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).