



Print this page **Plastics**

**Additives and Adsorbents**

## Hostanox® P-EPQ® powder

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### Processing stabilizer for coatings and plastic materials

#### Product Description

Hostanox P-EPQ powder is a highly efficient phosphorus based secondary antioxidant, which reduces the thermo-oxidative degradation of polymers and the development of undesired colour (yellowing) during processing. The main advantages of Hostanox P-EPQ powder are its high thermal stability and high solubility in polymeric materials as well as its broad compatibility in coating polymers.

#### Benefits

##### Plastics

- Low dosage
- High performance in color and melt flow retention during conversion process
- White application window allowing high processing temperatures
- Low softening temperature providing early stage protection in extrusion processes
- Significant contribution to dyne level retention
- High solubility in polymer virtually no haze or blooming
- High contribution to thermal stability of filled Polyolefin and engineering plastic compounds
- Higher contribution to Polypropylene clarity compared to other processing stabilizers
- Low plate out, low die buildup
- Preventing formation of char and specks

##### Coatings

- High contribution to thermal yellowing reduction during processing and long term heat stability
- Inhibit discoloration due to Stoving/NOx
- Reduce Gas Fading

#### Chemical Composition

**Chemical nature:** Phosphorous trichloride, reaction products with 1,1'-biphenyl and 2,4-bis(1,1-dimethylethyl)phenol

**Classification:** Process stabilizer for plastics

#### Specification

##### Delivery Specifications and (\*) General Properties

Characteristics	Unit	Target Value	Test Method
<b>Appearance</b>		white to slightly yellowish powder	visual
<b>Drop point</b>	[°C]	100 - 110	QC-999-1353
<b>Acid value</b>	[mg KOH/g]	max. 5.0	QC-999-1353
<b>Phosphorus content</b>	[%]	5.4 - 5.9	A.070.3017
<b>Loss on drying, 2 hours at 105°C</b>	[%]	max. 0.5	QC-999-1353
<b>2,4-di-tert.-butyl-phenol</b>	[%]	max. 2.5	A.031.0001
<b>Transmission 425nm, 10% in EtOH/Chloroforme 2:1</b>	[%]	min. 86	QC-070-0947
<b>Transmission 500nm, 10% in EtOH/Chloroforme 2:1</b>	[%]	min. 94	QC-070-0947

#### Application Coatings

Hostanox P-EPQ powder is recommended especially for the applications where polymers and/or binders are cured at elevated temperature and need thermo-stabilization, e.g. powder coatings, coil coatings and specific solventborne coatings (automotive for ex.).

#### Application Plastics

Hostanox P-EPQ powder is suitable for most kinds of thermoplastic polymers. It is recommended especially for the stabilization of polyolefins (LLDPE, HDPE, PP), ABS, PS, polybutylene, PBT, PC, PA, thermoplastic polyester, nitrile barrier resins, etc.

## Packaging and Handling

### Delivery form

Powder

The product is also available in other physical forms.

### Packaging

Cardboard box 200 kg with 20 PE bags of 10 kg

Cardboard box 400 kg with 20 Alu bags of 20 kg

Cardboard box 480 kg with 24 PE bags of 20 kg

### Storage

The product should be stored dry and at room temperatures and processed immediately after opening the packaging.

Minimum shelf life is two years from date of shipping when properly stored in the original sealed packaging.

## Safety

### Hazards

The product does not require a hazard warning label according CLP regulation (Regulation (EC) No. 1272/2008, as amended).

For further information please refer to the Material Safety Data Sheet.

### Contact Us;

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

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