Sustainable Innovation for a Better Future

PowerNox™ 3030 Antioxidant

Introduction

PowerNox™ 3030 is a kind of reactive, halogen free flame retardant additive with excellent heat stability and oxidation resistance.

Chemical Name

9,10-Dihydro-9-oxa-10-phosphaphenanthrene 10-oxide DOPO

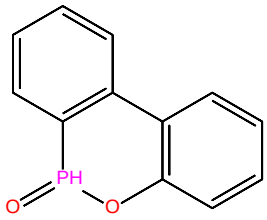
CAS Number

35948-25-5

EINECS Number

252-813-7

Chemical Structure



Chemical Formula

$C_{12}H_9O_2P$

Molecular Weight

216.17

Physical Properties

Appearance	White Power
Melting Point (°C)	116-121
Decompose Temperature (°C)	305
Phosphorus (%)	Min.14
OPP (ppm)	Max.1000
APHA	Max.100
Acid Value (mg KOH/g)	Max.300
Water Absorption Rate (%)	Max.0.3
Purity (%)	Min.99.50

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Benefits & Applications

PowerNox™ 3030 is a phosphorous organic flame retardant which can be mainly used for ABS, flexible Polyurethane, Epoxy Resin, Unsaturated Polyester resin, Phenolic resin, Coating – Paint, Textile –Back coating.

PowerNox™ 3030 can be used in electronics, circuit boards, linear polyester, polyamide, and polyurethane.

PowerNox™ 3030 has a less smoke density besides no corrosive gases for molders or extruders, is also suitable for high TG applications for resin and thermoplasts.

Handling & Storage

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Protect skin. Avoid dust formation and ignition sources.

This product may be stored up to one year in a sealed container. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat or sunlight could reduce product life. Keep containers sealed when not in use.

For more detailed information please refer to the material safety data sheet.

Packing

PowerNox™ 3030 is supplied in 20Kg Paper Bag, 20Kg PE Bag, 25Kg Carton Box, and 50Kg Fiber Drum.

Note

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

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